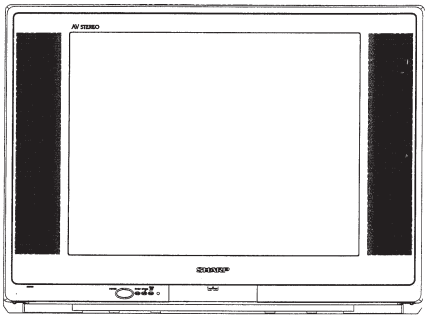
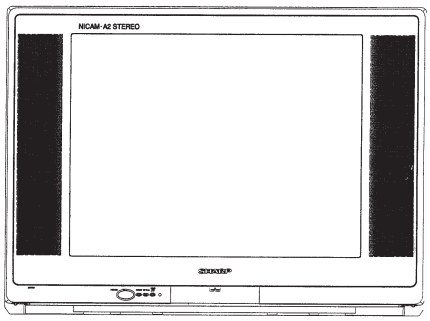
SHARP SERVICE MANUAL

S14N129WF200/



29WF200



29WF500

COLOUR TELEVISION

Chassis No. GB-1

MODELS

29WF200
29WF500

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

FEATURES

- PAL-B/G, NTSC (AV only) (29WF200)
- World Multi 28 System (29WF500)
- 100-CH Program Memory
- AV Mode (Standard / Dynamic / Soft)
- CATV Hyper Band Ready
- PAL/NTSC 3 Line Comb Filter
- On/Off Velocity Modulation
- Black Stretch Circuit
- Picture Noise Reduction
- White Temp. Select
- Aperture Control
- S-BOOSTER
- OSD-Language (English ONLY)
- On/Off Reminder Timer
- Power Save Mode
- Rear AV-IN 1 & 2, S-Video In, AV Output (Monitor Out), Headphone and Front AV-IN 3
- 3.5L Speaker Box
- AFT
- Component Input Terminal
- AV Stereo (29WF200)
- NICAM/A2 (29WF500)

CONTENTS

	Page
• SPECIFICATIONS	2
• IMPORTANT SERVICE NOTES	2
• ADJUSTMENT PRECAUTIONS	3
• TROUBLE SHOOTING FLOWCHART	15
• SOLID STATE DEVICE BASE DIAGRAM	19
• WAVEFORMS	20
• CHASSIS LAYOUT	22
• BLOCK DIAGRAM	24
• DESCRIPTION OF SCHEMATIC DIAGRAM	26
• SCHEMATIC DIAGRAM	
■ CRT UNIT	27
■ MAIN UNIT	28
■ AV COMB UNIT	36
■ S-CONTROL UNIT	40
■ FRONT UNIT	44
• PRINTED WIRING BOARD ASSEMBLIES	48
• REPLACEMENT PARTS LIST	
■ ELECTRICAL PARTS	56
■ MISCELLANEOUS PARTS	66
■ SUPPLIED ACCESSORIES	66
■ PACKING PARTS	66
■ CABINET PARTS	66
• PACKING OF THE SET	67

WARNING

The chassis in this receiver is partially hot. Use an isolation transformer between the line cord plug and power receptacle, when servicing this chassis. To prevent electric shock, do not remove cover. No user – serviceable parts inside. Refer servicing to qualified service personnel.

SHARP CORPORATION

SPECIFICATIONS

Convergence ..... Self Convergence System
Focus ..... Bi-Potential, Uni-Potential Electrostatic
Sweep Deflection ..... Magnetic

Intermediate Frequencies
- Picture IF Carrier 38.9MHz
- Sound IF Carrier Frequency
  - 5.5MHz ..... 33.4MHz(29WF200)
  - 6.5MHz ..... 32.4MHz(29WF500)
  - 6.0MHz ..... 32.9MHz(29WF500)
  - 5.5MHz ..... 33.4MHz(29WF500)
  - 4.5MHz ..... 34.4MHz(29WF500)
- Colour Sub-Carrier Frequency
  - PAL 34.47MHz
  - NTSC 35.32MHz

Power Input ..... 110 ~ 240V AC 50/60 Hz
Power Consumption ..... 158W(29WF200)
165W(29WF500)
Audio Power Output Rating ..... 10W X 2 (at Max.)

Speaker
- Size ..... 8 x 12 cm + 5cm round (2pcs.)

Aerial Input Impedance
- VHF/UHF ..... 75 ohms Unbalanced

Receiving Channel
- PAL-B/G
  - VHF-Channels ..... E2 thru E12
  - UHF-Channels E21thru E69
  - CATV ..... X thru Z +2, S1 thru S41
- PAL-B/G, SECAM-B/G
  - VHF-Channels ..... E2 thru E12(29WF500)
  - UHF-Channels ..... E21 thru E69(29WF500)
  - CATV ..... X thru Z + 2, S1 thru S41 (29WF500)
- PAL-D/K, SECAM-D/K
  - VHF-Channels ..... R1 thru R12, C1 thru C12(29WF500)
  - UHF-Channels ..... 21 thru 69, C21 thru C57(29WF500)
- PAL-I, SECAM-I
  - VHF-Channels ..... (IRELAND) B thru J(29WF500)
  - UHF-Channels ..... (U.K.& H.K.) 21 thru 69(29WF500)
- NTSC-M
  - VHF-Channels ..... 2 thru 13(US)(29WF500)
    1 thru 12 (Japan)(29WF500)
  - UHF-Channels ..... 14 thru 69(US)(29WF500)
    13 thru 62 (Japan)(29WF500)
  - CATV ..... A-6 thru A-1, A thru W+29(US)(29WF500)
    C13 thru C63 (Japan)(29WF500)

Receiving Frequency
- VHF ..... 44.25 MHz thru 423.25 MHz
- UHF ..... 431.25 MHz thru 863.25 MHz

Dimensions ..... Width: 800mm
Height: 583mm
Depth: 506mm
Weight(approx): 47 kg

Specifications are subject to change without prior notice.

IMPORTANT SERVICE NOTES

Maintenance and repair of this receiver should be done by qualified service personnel only.

SERVICE OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

When servicing the high voltage system, remove static charge from it by Connecting a 10K ohm Resistor in series with an insulated wire(such as a test probe) between picture tube dag and 2nd anode lead. (AC line cord should be disconnected from AC outlet.)

1. **Picture tube in this receiver employs integral implosion protection.**
2. **Replace with tube of the same type number for continued safety.**
3. **Do not lift picture tube by the neck.**
4. **Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage completely.**

X-RAY

This receiver is designed so that any X-Ray radiation is kept to an absolute Minimum. Since certain malfunctions or servicing may produce potentially hazardous radiation with prolonged exposure at close range, the followin precautions should be observed:

1. **When repairing the circuit, be sure not to increase the high voltage to more than 33.0kV (at beam 0 μA) for the set.**
2. **To keep the set in a normal operation , be sure to make it function on 30.0kV ±1.5kV (at beam 1,700 μA) in the case of the set. The set has been factory - Adjusted to the above-mentioned high voltage.**
   ∴ If there is a possibility that the high voltage fluctuates as a result of the repairs, never forget to check for such high voltage after the work.
3. **Do not substitute a picture tube with unauthorized types and/or brands which may cause excess X-ray radiation.**

BEFORE RETURNING THE RECEIVER

Before returning the receiver to the user, perform the following safety Checks.

1. **Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.**
2. **Inspect all protective devices such as non-metallic control knobs, insulating fishpapers, cabinet backs, adjustment and compartment covers or shields, isolation resistor- capacity networks, mechanical insulators etc.**

ADJUSTMENT PRECAUTIONS

This model's setting are adjusted in two different ways: through the I²C bus control and in the conventional analog manner. The adjustments via the I²C bus control include preset-only items and variable data.

1. Setting the service mode by the microprocessor.

① When the JA366 and JA367 are short-circuited, enter into the service mode. (Adjustment through the I²C bus control). (Use JWS Key to set as well).
② Press the CH DOWN / UP key on the remote controller to get ready to select the mode one by one.
③ Press the CH DOWN / UP key on the remote controller to select the modes reversibly one by one.
④ Using the VOLUME UP/ DOWN key on the remote controller, the data can be modified.
⑤ When the short circuit between the JA366 and JA367 is cut off, it will be released from the service mode.

2. Factory Presetting.

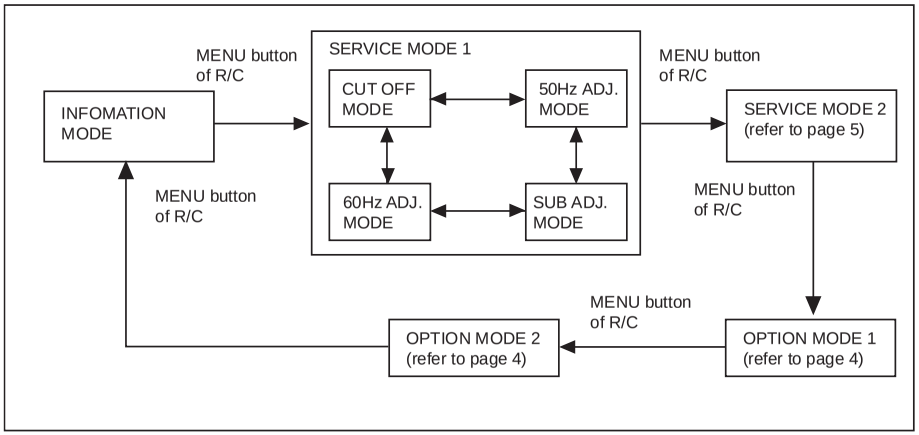
① Short JA366 & JA367 and turn on the main power switch. Initial values are automatically preset, only when a new EEPROM is used (Judge with the first 4 bytes).
② The initial data are preset as listed in page 5 to 8.
③ Make sure whether the data need to modification or not (Initial data).

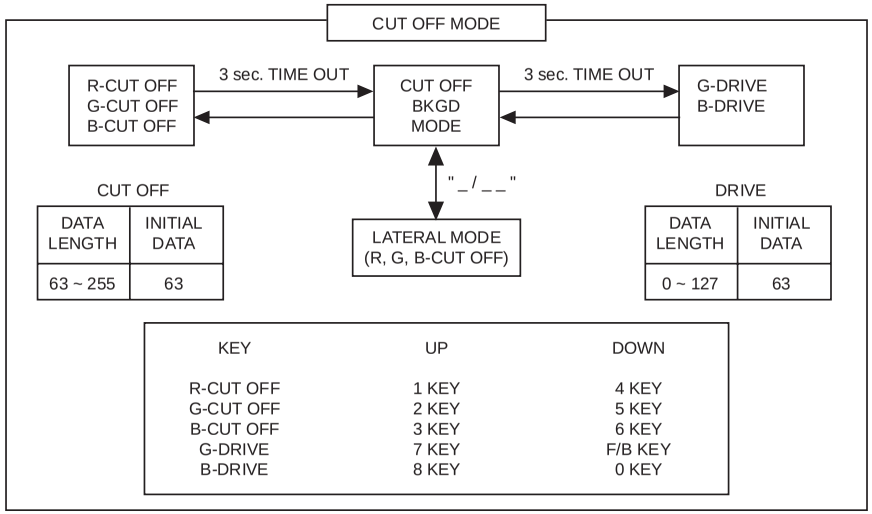
Note: Once the chassis has been assembly together and ready to be POWER ON for the FIRST TIME, make sure to short JA366 & JA367 to switch to the service mode position first and then turn on the main power switch. (See 2-① above).

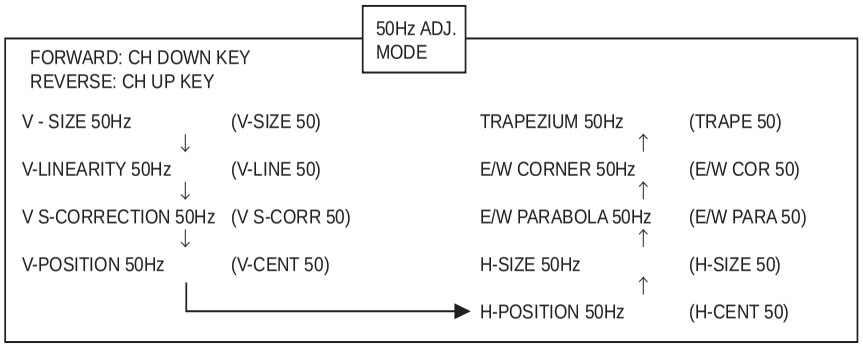
Precaution: If haven't done this initialization, it may possibly generate excessive Beam current.

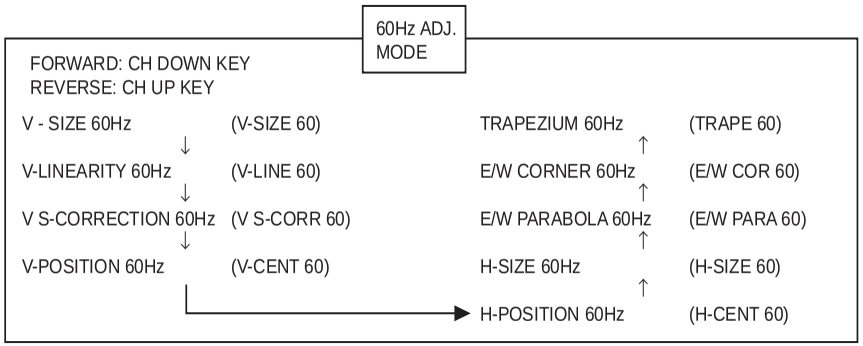
■SERVICE MODE

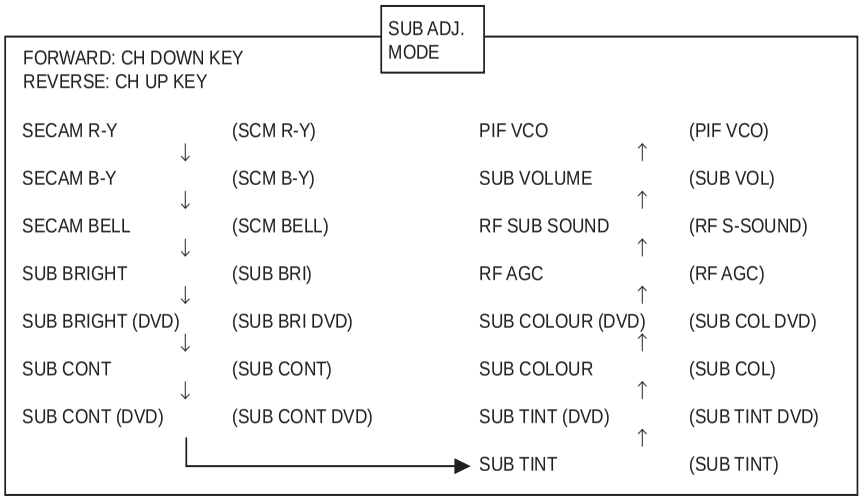
(1) In the Service Mode, Key is used to select the mode in the following order.


SERVICE MODE 1
MENU button of R/C
INFOMATION MODE
CUT OFF MODE
50Hz ADJ. MODE
60Hz ADJ. MODE
SUB ADJ. MODE
MENU button of R/C
SERVICE MODE 2 (refer to page 5)
MENU button of R/C
MENU button of R/C
MENU button of R/C
OPTION MODE 2 (refer to page 4)
OPTION MODE 1 (refer to page 4)









USER DATA IN SERVICE MODE OPTION

- While SERVICE MODE 1 on, EEPROM DATA will switch to the service data.
  Also, once press the menu button at the remote controller, EEPROM will switch to SERVICE MODE OPTION.
  Once press the menu button again at the remote controller, EEPROM will switch back to SERVICE MODE 1.
- In the service option the user data establish as below,

Service Mode Option MENU

No.	SERVICE MODE	EEPROM ITEM	OSD	DATA	INITIAL DATA
1	OPTION MODE 1	WHITE TEMP SETTING	WT	LOW/HIGH	HIGH
2		S-BOOST OPTION	S-BOOST	OFF/ON	ON
3		PIF FREQ. SETTING	PIF	33.50MHz ~ 58.75MHZ	38.9MHz
4		SPRIT/INTER CARRIER	S/I	SPRIT/INTER	SPRIT
5		FORCED COLOUR KILLER	F-ID	OFF/ON	OFF
6		TEXT OPTION	TEXT	OFF/ON	OFF
7		NICAM OPTION	NICAM	OFF/ON	OFF
8		A2 STEREO OPTION	A2	OFF/ON	OFF
9		MONO BILINGUAL OPTION	MONO-BIL	OFF/ON	OFF
10	OPTION MODE 1	SECAM OPTION	SECAM	OFF/ON	ON
11		RF-NTSC OPTION	RF NTSC	OFF/ON	ON
12		SOUND SYSTEM SETTING	S-SYS	BG / I / DK / M	BG I DK M
13		ROTATION OPTION	ROTATION	OFF/ON	OFF
14		SERCH SPEED SETTING	S SPD	350kHz / 450kHz / 550kHz	450kHz
15		HOTEL MODE OPTION	H MODE	OFF/ON	OFF
16		HOTEL MODE POSITION	H POSITION	0 ~ 99 / —	0
17		HOTEL MODE VOLUME	H VOLUME	0 ~ 60	0
18		OSD LANGUAGE	LANGUAGE	E / C / F / R / M / A	E C F R M A
19		COMB	COMB	OFF/ON	ON
20		AI	AI	OFF/ON	ON

Option setting data

No.	OSD	SETTING DATA	
		29WF200	29WF500
1	WT	HIGH	HIGH
2	S-BOOST	ON	ON
3	PIF	38.9MHZ	38.9MHz
4	S/I	SPRIT	SPRIT
5	F-ID	OFF	OFF
6	TEXT	OFF	OFF
7	NICAM	OFF	ON
8	A2	OFF	ON
9	MONO-BIL	OFF	OFF
10	SECAM	OFF	ON
11	RF NTSC	OFF	ON
12	S-SYS	BG	BG I DK M
13	ROTATION	OFF	OFF
14	S SPD	550kHz	550kHz
15	H MODE	OFF	OFF
16	H POSITION	0	0
17	H VOLUME	0	0
18	LANGUAGE	E	E
19	COMB	ON	ON
20	AI	ON	ON

AFTER SHORT JA 366 & JA 367, AND TURN ON THE MAIN POWER SWITCH, READ DATA FROM EEPROM ADDRESS 00H ~ 03H, AND COMPARE TO THE LIST BELOW, IF DIFFERENT, INITIALIZE THE EEPROM.

ADDRESS	DATA
00H	3AH
01H	76H
02H	3BH
03H	76H

1. SERVICE MODE 1.

No.	EEPROM SETTING	DATA LENGTH	OSD	IC	DATA SETTING	INITIAL DATA	SETTING DATA
1	CUT OFF	#1	CUTOFF BKGD	1 CHIP	CUTOFF/DRIVE	#2	—
2	CUT OFF (DVD)	#1	CUTOFF DVD BKGD	1 CHIP	CUTOFF/DRIVE	#2	—
3	V-SIZE (50Hz)	0 ~ 63	V-SIZE 50	1 CHIP	V-SIZE	7	22
4	V-LINEARITY (50Hz)	0 ~ 15	V-LINE 50	1 CHIP	V-LINEARITY	3	3
5	VS-CORRECTION (50Hz)	0 ~ 15	V S-CORR 50	1 CHIP	V S-CORRECTION	5	4
6	V-POSITION (50Hz)	0 ~ 7	V-CENT 50	1 CHIP	V-POSITION	3	4
7	H-POSITION (50Hz)	0 ~ 31	H-CENT 50	1 CHIP	H-P0SITION	11	8
8	H-SIZE (50Hz)	0 ~ 63	H-SIZE 50	1 CHIP	H-SIZE	31	50
9	E/W-PARABOLA (50Hz)	0 ~ 63	E/W PAR 50	1 CHIP	E/W PARABORA	31	35
10	E/W CORNER (50Hz)	0 ~ 15	E/W COR 50	1 CHIP	E/W CORNER	8	7
11	E/W TRAPEZIUM (50Hz)	0 ~ 31	TRAPE 50	1 CHIP	E/W TRAPEZIUM	5	17
12	SECAM R-Y #3	0 ~ 15	SCM R-Y	1 CHIP	SECAM R-Y	8	8
13	SECAM B-Y #3	0 ~ 15	SCM B-Y	1 CHIP	SECAM B-Y	8	8
14	SECAM BELL	0 ~ 1	SCM BELL	1 CHIP	BELL F0	0	0
15	SUB BRIGHT	0 ~ 127	SUB BRI	1 CHIP	BRIGHTNESS	80	80
16	SUB BRIGHT (DVD)	0 ~ 127	SUB BRI DVD	1 CHIP	BRIGHTNESS	80	80
17	SUB CONT	0 ~ 15	SUB CONT	1 CHIP	SUB CONTRAST	8	4
18	SUB CONT (DVD)	0 ~ 15	SUB CONT DVD	1 CHIP	SUB CONTRAST	8	4
19	SUB TINT #3	0 ~ 127	SUB TINT	1 CHIP	TINT	64	64
20	SUB TINT (DVD) #3	0 ~ 31	SUB TINT DVD	1 CHIP	BB-TINT	16	16
21	SUB COLOUR	0 ~ 127	SUB COL	1 CHIP	COLOUR	45	45
22	SUB COLOUR (DVD)	0 ~ 127	SUB COL DVD	1 CHIP	COLOUR	45	70
23	RF AGC	0 ~ 63	RF AGC	1 CHIP	RF AGC	46	34
24	RF SUB SOUND	0 ~ 127	RF S-SOUND	1 CHIP	IF AUDIO ATT	96	95
25	SUB VOLUME	0 ~ 255	SUB VOL	SOUND	VOLUME	60	255
26	PIF VCO	#4	PIFVCO	1 CHIP	#4	-	-
27	V-SIZE (60Hz)#5	0 ~ 63	V-SIZE 60	1 CHIP	V-SIZE	7	26
28	V-LINEARITY (60Hz)#5	0 ~ 15	V-LINE 60	1 CHIP	V-LINEARITY	3	3
29	VS-CORRECTION (60Hz)#5	0 ~ 15	V S-CORR 60	1 CHIP	V S-CORRECTION	5	6
30	V-POSITION (60Hz)#5	0 ~ 7	V-CENT 60	1 CHIP	V-POSITION	3	2
31	H-POSITION (60Hz)#5	0 ~ 31	H-CENT 60	1 CHIP	H-POSITION	11	10
32	H-SIZE (60Hz)#5	0 ~ 63	H-SIZE 60	1 CHIP	H-SIZE	31	50
33	E/W PARABOLA (60Hz)#5	0 ~ 63	E/W PAR 60	1 CHIP	E/W PARABORA	31	32
34	E/W CORNER (60Hz)#5	0 ~ 15	E/W COR 60	1 CHIP	E/W CORNER	8	5
35	TRAPEZIUM (60Hz)#5	0 ~ 31	TRAPE 60	1 CHIP	E/W TRAPEZIUM	5	17
36	V-ENT	0 ~ 7	V-ENT	1 CHIP	V-ENT	6	6
37	H-ENT	0 ~ 7	H-ENT	1 CHIP	H-ENT	5	5

#1 R CUT (63 ~ 255), G CUT (63 ~ 255), B CUT (63 ~ 255), G DRV (0 ~ 127), B DRV (0 ~ 127)

#2 R CUT (63), G CUT (63), B CUT (63), G DRV (63), B DRV (63)

#3 WHILE ADJUSTING SECAM R-Y, SECAM B-Y AND SUB-TINT, Y-MUTE OF 1 CHIP IS SET TO ON.

#4 WHILE CHOOSING PIFVCO MODE, RF AGC SET TO "0 0" AND PIFVCO IS SET TO "1".

#5 ADJUSTMENT FOR 60Hz. IS CHANGE AUTOMATICALLY BY 50Hz. ADJUSTMENT AS BELOW.

60Hz. ADJ.	OFFSET VALUE FROM 50Hz ADJ.
V-SIZE (60Hz)	+3
V-LINEARITY (60Hz)	+1
VS-CORRECTION (60Hz)	+1
V-POSITION (60Hz)	-1
H-POSITION (60Hz)	+3
H-SIZE (60Hz)	0
E/W-PARABOLA (60Hz)	+1
E/W-CORNER (60Hz)	0
TRAPEZIUM (60Hz)	0

HOTEL MODE

When hotel mode is ON;
- — Maximum volume data is determined by option setting H VOLUME.
- — Channel position after POWER ON is determined by option setting H POSITION (if option setting HOTEL-POS is not set, processing is according to last position data).
- — PRESET mode is disabled.
- — CH SETTING menu is not available.

2. SERVICE MODE 2.

No.	EEPROM SETTING	DATA LENGTH	OSD	IC	DATA SETTING	INITIAL DATA	SETTING DATA
1	WHITE PEEK CONTROL	0 ~ 1	WPS	1 CHIP	WPS	1	1
2	SUB CONTRAST	0 ~ 127	S CONT	1 CHIP	CONTRAST	127	127
3	NTSC PHASE	0 ~ 3	N-P NT	1 CHIP	N PHASE	0	0
4	SUB SHARPNESS (TV)	0 ~ 63	S SHARP T	1 CHIP	SHARPNESS	10	10
5	SUB SHARPNESS (AV)	0 ~ 63	S SHARP A	1 CHIP	SHARPNESS	10	10
6	SUB SHARPNESS (DVD)	0 ~ 63	S SHARP D	1 CHIP	SHARPNESS	10	10
7	RGB CONTRAST	0 ~ 63	RGB CONT	1 CHIP	RGB CONTRAST	32	42
8	Y-DL (B/G B/W)	0 ~ 3	Y B B	1 CHIP	Y-DL	0	0
9	Y-DL (B/G PAL)	0 ~ 3	Y B P	1 CHIP	Y-DL	1	0
10	Y-DL (B/G SECAM)	0 ~ 3	Y B S	1 CHIP	Y-DL	0	0
11	Y-DL (B/G N443)	0 ~ 3	Y B N4	1 CHIP	Y-DL	0	0
12	Y-DL (B/G N358)	0 ~ 3	Y B N3	1 CHIP	Y-DL	0	0
13	Y-DL (I B/W)	0 ~ 3	Y I B	1 CHIP	Y-DL	0	0
14	Y-DL (I PAL)	0 ~ 3	Y I P	1 CHIP	Y-DL	3	3
15	Y-DL (I SECAM)	0 ~ 3	Y I S	1 CHIP	Y-DL	0	0
16	Y-DL (I N443)	0 ~ 3	Y I N4	1 CHIP	Y-DL	0	0
17	Y-DL (I N358)	0 ~ 3	Y I N3	1 CHIP	Y-DL	0	0
18	Y-DL (D/K B/W)	0 ~ 3	Y DK B	1 CHIP	Y-DL	0	0
19	Y-DL (D/K PAL)	0 ~ 3	Y DK P	1 CHIP	Y-DL	3	0
20	Y-DL (D/K SECAM)	0 ~ 3	Y DK S	1 CHIP	Y-DL	3	0
21	Y-DL (DK N443)	0 ~ 3	Y DK N4	1 CHIP	Y-DL	0	0
22	Y-DL (DK N358)	0 ~ 3	Y DK N3	1 CHIP	Y-DL	0	0
23	Y-DL (M B/W)	0 ~ 3	Y M B	1 CHIP	Y-DL	0	0
24	Y-DL (M PAL)	0 ~ 3	Y M P	1 CHIP	Y-DL	0	0
25	Y-DL (M SECAM)	0 ~ 3	Y M S	1 CHIP	Y-DL	0	0
26	Y-DL (M N443)	0 ~ 3	Y M N4	1 CHIP	Y-DL	1	1
27	Y-DL (M N358)	0 ~ 3	Y M N3	1 CHIP	Y-DL	1	0
28	Y-DL (AV B/W)	0 ~ 3	Y A B	1 CHIP	Y-DL	0	0
29	Y-DL (AV PAL)	0 ~ 3	Y A P	1 CHIP	Y-DL	0	0
30	Y-DL (AV SECAM)	0 ~ 3	Y A S	1 CHIP	Y-DL	0	0
31	Y-DL (AV N443)	0 ~ 3	Y A N4	1 CHIP	Y-DL	0	0
32	Y-DL (AV N358)	0 ~ 3	Y A N3	1 CHIP	Y-DL	0	0
33	SECAM GP-PHASE	0 ~ 3	S G-PHASE	1 CHIP	S GP-PHASE	1	1
34	SECAM ID-SENS	0 ~ 1	S ID-SENS	1 CHIP	S ID-SENS	0	0
35	SECAM ID-MODE	0 ~ 1	S ID-MODE	1 CHIP	S ID-MODE	0	0
36	P/N-ID	0 ~ 1	PN ID	1 CHIP	P/N-ID	0	0
37	6.5M SIF FIX	0 ~ 1	6.5M	1 CHIP	6.5M S-FIX	0	0
38	DC RESTORATION	0 ~ 3	DC REST	1 CHIP	DC RESTORATION	3	3
39	BLACK STRETCH	0 ~ 3	S ST	1 CHIP	BLACK STRETCH	1	2
40	ABL START POINT	0 ~ 3	ABL ST	1 CHIP	ABL START POINT	3	2
41	ABL GAIN	0 ~ 3	ABL GA	1 CHIP	ABL GAIN	2	2
42	COLOUR GAMMA	0 ~ 1	COL G	1 CHIP	COLOUR GAMMA	1	1
43	V RAMP REF. VOLTAGE	0 ~ 1	V RAMP	1 CHIP	V RAMP	1	1
44	VSM PHASE	0 ~ 1	VSM PHASE	1 CHIP	VSM PHASE	0	0
45	AUDIO ATT	0 ~ 127	ATT	1 CHIP	IF AUDIO ATT	0	0
46	DATAILS CORING	0 ~ 63	WECOR	COMB/AI	WECOR	32	5
47	DATAILS DIFF FREQ.	0 ~ 1	DCNG	COMB/AI	DCNG	1	1
48	DATAILS GAIN	0 ~ 7	SPAL	COMB/AI	SPAL	6	2

No.	EEPROM SETTING	DATA LENGTH	OSD	IC	DATA SETTING	INITIAL DATA	SETTING DATA
49	DATAILS LIMIT	0 ~ 15	PKLM	COMB/AI	PKLM	8	4
50	OUTLINE DFF FREQ.	0 ~ 1	YDO	COMB/AI	YDO	0	1
51	OUTLINE CORING	0 ~ 7	RCOR	COMB/AI	RCOR	5	4
52	OUTLINE CORRECTION	0 ~ 15	RMY	COMB/AI	RMY	14	14
53	DATAILS OUTLINE	0 ~ 255	GAINA	COMB/AI	GAINA	64	90
54	YNR CORING	0 ~ 7	BLC	COMB/AI	BLC	4	0
55	CHROMA BPF TV	0 ~ 3	BPS T	COMB/AI	BPS T	0	3
56	CHROMA BPF AV	0 ~ 3	BPS A	COMB/AI	BPS A	0	0
57	Y-DELAY TV	0 ~ 7	YDL T	COMB/AI	YDL T	4	4
58	Y-DELAY AV	0 ~ 7	YDL A	COMB/AI	YDL A	3	3
59	V OUTLINE LIMIT	0 ~ 15	VPL	COMB/AI	VPL	8	8
60	V OUTLINE CORING	0 ~ 15	KOA	COMB/AI	KOA	2	7
61	V OUTLINE DETECT	0 ~ 1	YHO	COMB/AI	YHO	1	1
62	YNR DETECT GAIN	0 ~ 3	YNG	COMB/AI	YNG	2	0
63	YNR CORING	0 ~ 15	COR	COMB/AI	COR	8	1
64	B-STRETCH REFLECT	0 ~ 3	APSL	COMB/AI	APSL	1	1
65	B-STRETCH THRE	0 ~63	APMN	COMB/AI	APMN	20	20
66	PEDESTAIL CORRECTION	0 ~ 7	PHD	COMB/AI	PHD	6	6
67	B-STRETCH INITIAL	0 ~ 31	APA	COMB/AI	APA	6	4
68	AI ON/OFF	0 ~ 1	AION	COMB/AI	AION	0	1
69	HISTGRAM LIMIT	0 ~ 63	LMT	COMB/AI	LMT	12	15
70	Y-MIN DETECT GAIN	0 ~ 3	MNSL	COMB/AI	MNSL	2	1
71	Y-MIN LIMIT	0 ~ 63	MINLT	COMB/AI	MINLT	32	32
72	BASE AMOUNT	0 ~15	BSE	COMB/AI	BSE	15	15
73	Y-MIN DETECT OFFSET	0 ~15	MNOFT	COMB/AI	MNOFT	6	9
74	APL LAST GAIN	0 ~ 1	APGA	COMB/AI	APGA	1	1
75	APL LIMIT LAST GAIN	0 ~ 63	APLT	COMB/AI	APLT	10	32
76	APL SWITCH LAST GAIN	0 ~ 127	APDT	COMB/AI	APDT	37	10
77	LOW APL COL LEVEL	0 ~ 63	APC	COMB/AI	APC	28	10
78	LOW APL COL GAIN	0 ~ 3	CAS	COMB/AI	CAS	0	2
79	HIGH APL COL LEVEL	0 ~ 63	APU	COMB/AI	APU	54	5
80	HIGH APL COL GAIN	0 ~ 3	CUS	COMB/AI	CUS	2	2
81	PRESCALE SCART	0 ~ 127	PRE S	NICAM	PRESCALE	24	24
82	PRESCALE FM/AM	0 ~ 127	PRE F	NICAM	PRESCALE	10	10
83	PRESCALE NICAM	0 ~ 127	PRE N	NICAM	PRESCALE	63	24
84	AUTO VOLUME CORR	0 ~ 3	AVC	NICAM	PRESCALE	0	0
85	VOLUME NICAM BG	0 ~ 127	BG L	NICAM	VOLUME	127	113
86	VOLUME NICAM I	0 ~ 127	I L	NICAM	VOLUME	127	103
87	VOLUME NICAM DK	0 ~ 127	DK L	NICAM	VOLUME	127	95
88	VOLUME IGR BG	0 ~ 127	IGR L	NICAM	VOLUME	127	125
89	VOLUME FM	0 ~ 127	FML	NICAM	VOLUME	127	125
90	OSD H-POSITION	0 ~ 127	OSD-H	-	-	26	25
91	TEXT H-POSITION	0 ~ 127	TEXT-H	-	-	34	10
92	TEXT V-POSITION	0 ~ 63	TEXT-L	-	-	35	37
93	VSM GAIN(AVM1)	0 ~ 7	VG1SP1	1 CHIP	VSM GAIN	3	7
94	GAMMA POINT(AVM1)	0 ~ 3	G-POINT1	1 CHIP	GAMMA POINT	3	2
95	TREBLE(AVM1)	0 ~ 60	TRE1SP1	SOUND	TREBLE	25	31
96	BASS(AVM1)	0 ~ 60	BASS1SP1	SOUND	BASS	25	28
97	SURR EFECT(AVM1)	0 ~ 15	EF1SP1	SOUND	SURR LEVEL	15	10
98	SURR LOOP(AVM1)	0 ~ 1	LO1SP1	SOUND	LOOP	0	0
99	VSM GAIN(AVM2)	0 ~ 7	VG1SP2	1 CHIP	VSM GAIN	5	4
100	GAMMA POINT(AVM2)	0 ~ 3	G-POINT2	1 CHIP	GAMMA POINT	2	2
101	TREBLE(AVM2)	0 ~ 60	TRE2SP1	SOUND	TREBLE	30	30
102	BASS(AVM2)	0 ~ 60	BASS2SP1	SOUND	BASS	32	30
103	SURR EFECT(AVM2)	0 ~ 15	EF2SP1	SOUND	SURR LEVEL	15	10
104	SURR LOOP(AVM2)	0 ~ 1	LO2SP1	SOUND	LOOP	0	0

No.	EEPROM SETTING	DATA LENGTH	OSD	IC	DATA SETTING	INITIAL DATA	SETTING DATA
105	VSM GAIN(AVM3)	0 ~ 7	VG1SP3	1 CHIP	VSM GAIN	7	7
106	GAMMA POINT(AVM3)	0 ~ 3	G-POINT3	1 CHIP	GAMMA POINT	1	2
107	TREBLE(AVM3)	0 ~ 60	TRE3SP1	SOUND	TREBLE	35	32
108	BASS(AVM3)	0 ~ 60	BASS3SP1	SOUND	BASS	35	30
109	SURR EFECT(AVM3)	0 ~ 15	EF3SP1	SOUND	SURR LEVEL	15	10
110	SURR LOOP(AVM3)	0 ~ 1	LO3SP1	SOUND	LOOP	0	0
111	S-BOOST MER	0 ~ 255	MER	-	-	127	80
112	S-BOOST MEL1	0 ~ 255	MEL1	-	-	180	150
113	S-BOOST MEL2	0 ~ 255	MEL2	-	-	195	156
114	S-BOOST MEL3	0 ~ 255	MEL3	-	-	210	163
115	S-BOOST MEL4	0 ~ 255	MEL4	-	-	225	165
116	S-BOOST MEL5	0 ~ 255	MEL5	-	-	240	170
117	S-BOOST MEL6	0 ~ 255	MEL6	-	-	255	180
118	S-BOOST START POINT	0 ~ 255	SSTP	-	-	25	21
119	S-BOOST STOP POINT	0 ~ 255	SSPP	-	-	45	60
120	SIBOOST STEP POINT	0 ~ 255	SSTEP	-	-	5	7
121	AUDIO AGC	0 ~ 1	SUR AGC	SOUND	AGC	1	1
122	NICAM FM	0 ~ 255	NICAM FM	SOUND	NICAM	80	80

INITIAL SETTING

(1) Execute MCL 1/2 key to set the following data in EEPROM.

	SREC/SRAC/SYI					SREC-SCA			
R/C CODE	MCL 1 (R/C CODE 117h)					MCL 2 (R/C CODE 169h)			
TV-CH.	CH-No.	Fv (MHz)	S-SYSTEM			CH-No.	Fv (MHz)	S-SYSTEM	
0	SKIP OFF FREE						590.25	5.5	B/G
1	E-2	48.25	5.5	B/G		AU-0	46.25	5.5	B/G
2	E-4/B-3	62.25	5.5	B/G		AU-2	64.25	5.5	B/G
3	OIR-3	77.25	6.5	D/K		AU-3	86.25	5.5	B/G
4	E-5	175.25	5.5	B/G		AU-4	95.25	5.5	B/G
5	E-6/B-5	182.25	5.5	B/G		AU-5A	138.25	5.5	B/G
6	OIR-7	183.25	6.5	D/K		AU-6	175.25	5.5	B/G
7	OIR-8	191.25	6.5	D/K		AU-7	182.25	5.5	B/G
8	E-8/B-7	196.25	5.5	B/G		AU-8	189.25	5.5	B/G
9	J-9	199.25	4.5	M		AU-9	196.25	5.5	B/G
10	E-10/B-9	210.25	5.5	B/G		AU-10	209.25	5.5	B/G
11	E-12/B-11	224.25	5.5	B/G		AU-11	216.25	5.5	B/G
12	E-21	471.25	5.5	B/G		SKIP OFF FREE			
13	I-23	487.25	6.0	I		SKIP OFF FREE			
14	E-25	503.25	5.5	B/G		SKIP OFF FREE			
15	E-34	575.25	5.5	B/G		SKIP OFF FREE			
16	E-35	583.25	5.5	B/G		SKIP OFF FREE			
17	E-37	599.25	5.5	B/G		SKIP OFF FREE			
18	J-38	621.25	4.5	M		SKIP OFF FREE			
19	OIR-42	639.25	6.5	D/K		SKIP OFF FREE			
20	B-50	703.25	5.5	B/G		SKIP OFF FREE			
21	I-54	735.25	6.0	I		SKIP OFF FREE			
22	E-58	767.25	5.5	B/G		SKIP OFF FREE			
23	E-64	815.25	5.5	B/G		SKIP OFF FREE			
24	I-69	855.25	6.0	I		SKIP OFF FREE			
25	E-69	855.25	5.5	B/G		SKIP OFF FREE			
26	US-2	55.25	4.5	M		SKIP OFF FREE			
27	A-6	83.25	4.5	M		SKIP OFF FREE			
28	JA-6	183.25	4.5	M		WE-28	527.25	5.5	B/G
29	JA-8	193.25	4.5	M		SKIP OFF FREE			
30	JA-12	217.25	4.5	M		SKIP OFF FREE			
31	US-14	471.25	4.5	M		SKIP OFF FREE			
32	JA-14	477.25	4.5	M		SKIP OFF FREE			
33	JA-50	693.25	4.5	M		SKIP OFF FREE			
34	US-83	885.25	4.5	M		SKIP OFF FREE			
35	S-2	112.25	5.5	B/G		SKIP OFF FREE			
36	S-10	168.25	5.5	B/G		SKIP OFF FREE			
37	SKIP OFF FREE					AU-37	590.25	5.5	B/G
38	S-20	294.25	5.5	B/G		SKIP OFF FREE			
39	S-41	463.25	5.5	B/G		SKIP OFF FREE			
40	SKIP OFF FREE					SKIP OFF FREE			
41	B-43	647.25	5.5	B/G		E-2	48.25	5.5	B/G
42	B-45	663.25	5.5	B/G		WE-4	62.25	5.5	B/G
43	B-47	679.25	5.5	B/G		OI-3	77.25	6.5	D/K
44	E-5	174.95	5.5	B/G		E-5	175.25	5.5	B/G
45	E-5	175.55	5.5	B/G		OIR-7	183.25	6.5	D/K
46	SKIP OFF FREE					OIR-8	191.25	6.5	D/K
47	SKIP OFF FREE					E-10	210.25	5.5	B/G
48	SKIP OFF FREE					E-12	224.25	5.5	B/G
49	SKIP OFF FREE					I-23	487.25	6.0	I
50	SKIP OFF FREE					WE-25	503.25	5.5	B/G
51	SKIP OFF FREE					E-34	575.25	5.5	B/G

	SREC/SRAC/SYI					SREC-SCA			
R/C CODE	MCL 1 (R/C CODE 117h)					MCL 2 (R/C CODE 169h)			
TV-CH.	CH-No.	Fv (MHz)	S-SYSTEM			CH-No.	Fv (MHz)	S-SYSTEM	
52	SKIP OFF FREE					E-37	599.25	5.5	B/G
53	SKIP OFF FREE					JPN-38	621.25	4.5	M
54	SKIP OFF FREE					OI-42	639.25	6.5	D/K
55	SKIP OFF FREE					I-54	735.25	6.0	I
56	SKIP OFF FREE					E-58	767.25	5.5	B/G
57	SKIP OFF FREE					WE-64	815.25	5.5	B/G
58	SKIP OFF FREE					I-69	855.25	6.0	I
59	SKIP OFF FREE					JA-1	91.25	4.5	M
60	SKIP OFF FREE					JA-6	183.25	4.5	M
61	SKIP OFF FREE					JA-8	193.25	4.5	M
62	SKIP OFF FREE					JA-12	217.25	4.5	M
63	SKIP OFF FREE					US-14	471.25	4.5	M
64	SKIP OFF FREE					JA-50	693.25	4.5	M
65	SKIP OFF FREE					S-2	112.25	5.5	B/G
66	SKIP OFF FREE					S-10	168.25	5.5	B/G
67	SKIP OFF FREE					S-20	294.25	5.5	B/G
68	SKIP OFF FREE					S-41	463.25	5.5	B/G
69	SKIP OFF FREE					E-5	174.95	5.5	B/G
70	SKIP OFF FREE					E-5	175.55	5.5	B/G
↓	↓					↓			
99	SKIP OFF FREE					SKIP OFF FREE			

SHIPPING SETTING & CHECKING

(1) The following default data has been factory-setting for the EEPROM.

FACTORY-SET9	
R/C	238 (Eeh)
S-SYSTEM	B/G
LANGUAGE SELECT	ENGLISH

ITEM	DATA SETTING
LAST POWER	ON
LAST TV/AV MODE	TV
LAST CH	CH1
FLASH BACK	CH1
FAVORITE CH1	CH10
FAVORITE CH2	CH20
FAVORITE CH3	CH30
FAVORITE CH4	CH40
1 DIGIT/2 DIGIT	2 DIGIT
VOLUME	0
ROTATION	0
SAVE	OFF
AV MODE	2
BALANCE	0
BLUE BACK	OFF

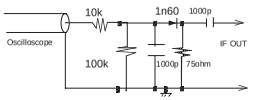
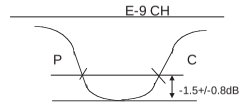
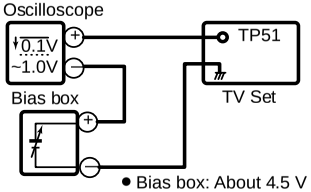
ITEM	DATA SETTING
VM	ON
TEXT	1
ON TIMER	IN ACTIVE
ON TIMER CH	IN ACTIVE
ON TIMER VOLUME	IN ACTIVE
REMINDER	IN ACTIVE
AFT	ALL CH ON
COLOUR SYSTEM	ALL CH AUTO
SKIP	ALL CH OFF
NICAM ON/OFF	ALL CH ON
NICAM STEREO MODE	ALL CH STEREO
NICAM BILINGUAL MODE	ALL CH M1
A2 ON/OFF	ALL CH ON
A2 STEREO MODE	ALL CH STEREO
A2 BILINGUAL MODE	ALL CH MAIN

(2) Normal setting for AV MODE.

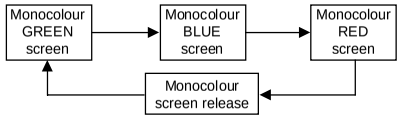
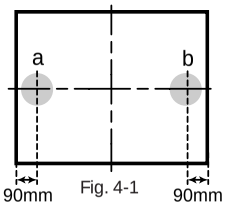
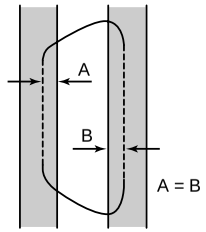
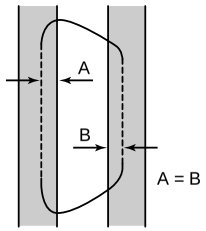
MODE	1 SOFT	2 STANDARD	3 DYNAMIC
CONTRAST	50	60	60
COLOUR	-5	0	10
BRIGHT	0	0	0
TINT	0	0	0
SHARPNESS	-5	0	5
PEICTURE NR	ON	OFF	OFF
WHITE TEMP	0	0	0
SURROUND	OFF	OFF	ON
TREBLE	#	#	#
BASS	#	#	#
S-BOOSTER	OFF	ON	ON

SERVICE MODE DATA

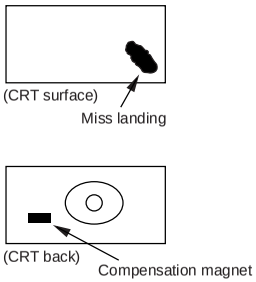
PIF ADJUSTMENT

No.	Adjusting point	Adjusting condition/procedure	Waveform or others
1	**TUNER IFT (PRESET) TU200**	1. Get the tuner ready to receive the CH. E -9 signal,but with no signal input. Adjust the PLL data. 2. Connect the sweep generator's output cable to the tuner antenna. (RF SWEEP) 3. Adjust the sweep generator's to 80dBμV. 4. Connect the response lead (use LOW IMPEDANCE probe with wave detector ; see Fig.1) to the tuner's IF output terminal. (This terminal must have the probe alone connected). 5. Set the RF AGC to 0 - 6 V with no saturation with the waveform. 6. Adjust the tuner IF coil to obtain the waveform as shown in Fig. 2. **Note: Be sure to keep the tuner cover in position during this adjustment.**	 Fig.1  Fig.2
2	**RF-AGC TAKE OVER POINT ADJUSTMENT (I²C BUS CONTROL)**	1. Receive "PAL COLOUR BAR" signal. ● Signal Strength: 54 ± 1 dBμV (75 ohm open) 2. Connect the oscilloscope to TP51 (Tuner's AGC Terminal) as shown in Fig. 3.  ● Bias box: About 4.5 V Fig. 3 3. Call "RF-AGC" mode in service mode. Adjust the "RF-AGC" bus data to obtain the Tuner output pin drop **0.1V ~ 1.0V** below maximum voltage. 4. Change the antenna input signal to 63~67dBμV, and make sure there is no noise. 5. Turn up the input signal to 90~95 dBμV to be sure that there is no cross modulation beat.	**Note: For the 50 W signal strength gauge, when not using 50/75 impedance adapter, signal strength is 52±1dBμV(75 W open), instead of 54±1dBμV (75 W open).** Precaution: The loss of using impedance adapter.

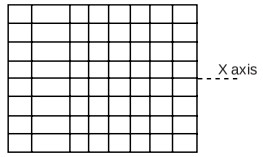
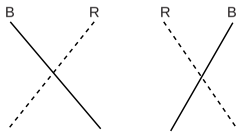
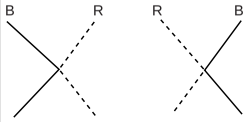
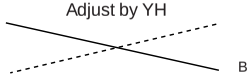
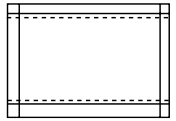
PURITY ADJUSTMENT

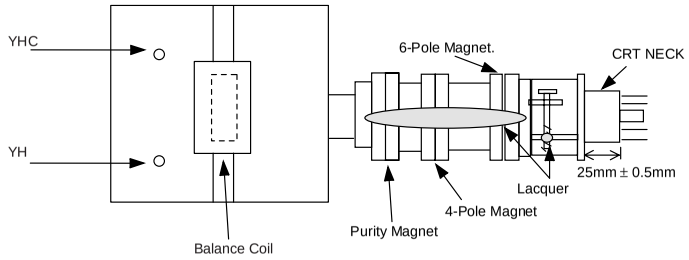
No.	Adjusting point	Adjusting condition/procedure	Waveform or others
1	**PURITY ADJ.**	1. Select the green monocolour screen with remote controller, and set the beam current of 1.7mA with the contrast control. 2. Degauss the CRT enough with the degausing coil. For the adjustable magnetic field NOTE: Horizontal = 0 Vertical = 0.1 Adjustable magnetic field is shown in P8-1. 3. The purity magnet must be previously set at the zero magnetic field, and the convergence must be adjusted to be rough. With P-MG, adjust it to the center - rank A. 4. Observe the points a, b as shown in Fig. 4-1 through the microscope. Move DY fore and aft to set the landing at the point. (rank A) 5. If the a/b balance is poor, compensate it to the center "Rank AB". 6. Aline it to zero, keeping the raster rotation in the east direction. 7. Tighten the deflection coil fastening screws. ● Tightening torque: 108 ± 20 N (11 ± 2 kgf) 8. Checking the CRT corner area, bond the magnetic sheet to set the landing at Rank A for compensation. **Note: Apply the adjustment after aging with the beam current 1700 ± 50 μA or more for 30 minutes or more.** **Note: Select the service mode, and press the monocolour key of R/C for process,and the monocolour screen (green) will be selected.** * Every push of the monocolour key, changes the screen as follows.  * Adjustment for uniformity is mentioned in another content. Please refer to the following page.	 Fig. 4-1  Fig. 4-2 Rank "A" (on the right of CRT)  Fig. 4-3 Rank "A" (on the left of CRT) * Continuosly press the monocolour key 1 second or more, and the monocolour mode will be selected without the service mode. * Even with TEXT key or "R/G/Cy" key, it can be directly switched to each monocolour screen.

PURITY ADJUSTMENT (Continued)

No.	Adjusting point	Adjusting condition/procedure	Waveform or others
2	**Uniformity adjustment (To perform after the purity and convergence adjustment.)**	Before adjustment begin, Horizontal magnetic field = 0G Vertical magnetic field = Each destination's adjustment magnetic field. Make sure degauss it. (North direction Red uniformity) 1. Horizontal mf = Set to monocolour screen Red and adjust to + 0.25G. 2. Pay attention to the edge of CRT, if the landing is poor, adjust by attaching the compensation magnet at the back of the CRT. (Refer to Fig.5) (South direction Red uniformity) 1. Horizontal mf = Set to monocolour screen Red and adjust to - 0.25G. 2. Pay attention to the edge of CRT, if the landing is poor, adjust by attaching the compensation magnet at the back of the CRT. (The same method is applied for adjustment of monocolour screen Blue for blue uniformity, and changing both the magnetic field for North and South direction.) * During the pasting of compensation magnet, use the crosshatch pattern. Make sure there is no blur or bend lines occur. If the blur or bend are serious, adjust the location of compensation magnet to make it better.	 Fig. 5

CONVERGENCE ADJUSTMENT

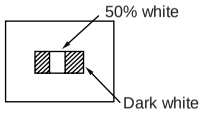
No.	Adjusting point	Adjusting condition/procedure	Waveform or others
1	**CONVERGENCE ADJ. (To be done after the purity adjustment.)**	1. Receive the "Crosshatch Pattern" signal. 2. Using the remote controller, call NORMAL mode. **Static convergence** 1. Overlap blue and red with the open-/closing angle and rotation of the 4 pole magnet. 2. Overlap green on blue and red with the open-/closing angle and rotation of the 6 pole magnet. **Dynamic convergence** 1. Fix the wedges in a position so that the deflection york neck is at the center of top bottom and left right. (Straight line and without any blur horizontal / vertical line.) 2. Adjust the Red, Blue, upper and lower of the center Y axis on the screen by using the Volume(YH, YHC) at the deflection york. (Refer to Fig.6-1 and 6-2.) 3. If the Horizontal Red, Blue (XV) on the screen center X axis is shifted, correct the Red. Blue (XV) by adjusting the balance coil on the deflection york. (Refer to Fig.6-3.) 4. After confirm that there is no problems on the entire screen, bond each wedge on CRT and glass tape on it. Fastening the screws of DY and magnet unit (purity, 4-pole and 6-pole), then coat the lacquer paint on DY fastening screw and magnet unit fastening screw. **Note:** **In case of poor convergence adjustment on the top and bottom of the screen, adjust DY by swing rightward and leftward. (Refer to Fig.6-4.)**	  Fig. 6-1 Adjust by YHC  Fig. 6-2 Adjust by YH  Fig. 6-3 Adjust by Balance Coil  Fig. 6-4 Adjust by Swing DY



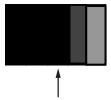
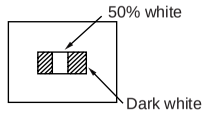
FOCUS ADJUSTMENT

No.	Adjusting point	Adjusting condition/procedure	Waveform or others
1	**FOCUS ADJUSTMENT**	1. Receive E-5CH (Monoscope Pattern). 2. With the remote controller, make the image normal. 3. Adjust the focus VR to make the character "575" on left bottom of monoscope as fine as possible.	

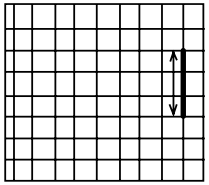
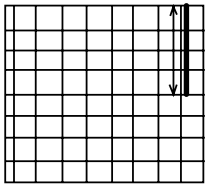
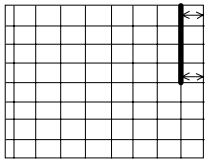
CUT-OFF, BACKGROUND AND SUB-CONTRAST ADJUSTMENT

No.	Adjusting point	Adjusting condition/procedure	Waveform or others
1	**CRT CUTOFF ADJUSTMENT (I^2C BUS CONTROL)**	1. Receive "WHITE" Pattern with Colour Burst signal. 2. Select P-NORM with the remote controller. 3. Select the CUT OFF BKGD mode at the service mode. 4. Select the screen VR 0/10. 5. Press "-/--" key of the remote controller to select the lateral in-line mode. 6. Turn the screen VR clockwise, and adjust the first lighting lateral in-line raster to slighly light. 7. Adjust the CUT OFF data of two other colours, and coarsely adjust the lateral in-line to become white. (Note 1) 8. Turn the screen VR in the opposite direction to the point where the lateral in-line raster goes out. **Note 1: Apply the adjustment after aging with the beam current 1,700±50μA or more for 30 min or more.** 9. Press "-/--" key of the remote controller to select the normal mode.	* Befor doing adjustment, make sure the R/G/B-cut and the B/G-Drive is at initial value. On the monocolour screen of white or green.
2	**WHITE BALANCE BACKGROUND I^2C BUS ADJUSTMENT (AV-IN SIGNAL)**	1. Receive "WHITE" Pattern with COLOUR BURST signal. 2. Select P-NORM with the remote controller. 3. Connect the beam ammeter between TP1601 and TP1602. 4. Coarsely confirm the beam current to approx. 1.7mA. 5. Receive the window pattern with AV input. (PAL burst is generated with the signal generator.) 6. With the data of G-drive and B-drive, adjust the colour temperature 12,300°K of the 50% white. 7. Adjust the right dark area of the window to 17,000°K with R-cut off, G-cut off and B-cut off. 8. Read just the colour temperature at the 50% white. 9. Check 12,300°K at the dark white. **Note1 : Apply this adjustment after aging with the beam current 1,700±50μA or more for 30 min or more.** **(On the white or green minocolour screen)** * The colour temperature is based on the shipment initial setting table.	**Note1: Data up/down is possible with the below comparison.** R CUT OFF UP "1"KEY DOWN "4"KEY G CUT OFF UP "2"KEY DOWN "5"KEY B CUT OFF UP "3"KEY DOWN "6"KEY G-DRIVE UP "7"KEY DOWN "⇆"KEY B-DRIVE UP "8"KEY DOWN "0"KEY *18,000°K X : 0.255 Y : 0.255 *17,000°K X : 0.261 Y : 0.261 *12,300°K X : 0.272 Y : 0.275 (With Minolta colour thermometer CA-100) **Note2:** **Use the window pattern of the signal generator SX-1006 for adjustment.** **(PAL and colour burst are present.)**
3	**WHITE BALANCE BACKGROUND I^2C BUS ADJUSTMENT (DVD SIGNAL)**	1. The window pattern is received with DVD signal (component signal). 2. Apply the adjustment in the same manners as 2 (AV-IN SIGNAL) and subsequence above. (G-DRIVE, B-DRIVE, R-CUT OFF, G-CUT OFF, B-CUT OFF) Apply the adjustment after the end of 2 (AV-IN SIGNAL).	

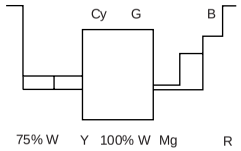
CUT-OFF, BACKGROUND AND SUB-CONTRAST ADJUSTMENT (Continued)

No.	Adjusting point	Adjusting condition/procedure	Waveform or others
4	**SUB-BRIGHTNESS ADJUSTMENT (I^2C BUS CONTROL) (AV-IN SIGNAL)**	1. Receive the window pattern with AV input. 2. Make the image normal with the remote controller. 3. Select the SUB-BRIGHT adjustment mode with the remote controller, and adjust the right dark white area of the window pattern to 5.5 ± 0.5 cd.	Reference: * When E-2 CH (Crosshatch pattern) or equivalent signal is received. 1.Make the image normal with the remote controller. 2.Adjust the 4rd (1 thru 5 from the left) black of the window pattern to sink. 
5	**SUB-BRIGHTNESS ADJUSTMENT (I^2C BUS CONTROL) (DVD SIGNAL)**	1. Select DVD mode. 2. Receive the signal of the DVD signal generator. (Component signal) (Window pattern) 3. Make the image normal with the remote controller. 4. Select the SUB-BRIGHT adjustment mode (DVD), and adjust the right dark white area of the window pattern to 2.8 ± 0.5 cd of the window pattern.	
6	**SUB-CONTRAST I^2C BUS ADJUSTMENT (AV-IN SIGNAL)**	1. Receive the window pattern with AV input. 2. Make the image normal with the remote controller. 3. Select the SUB-CONTRAST adjustment mode with the remote controller, and adjust 50% white to 165 ± 10cd.	**Note 3:** **Use "Y" of Minolta colour analyzer CA-100 in adjustment.** **Note 4:** **Use the window pattern of the signal generator SX-1006 for adjustment.**
7	**SUB-CONTRAST I^2C BUS ADJUSTMENT (DVD SIGNAL)**	1. Select the DVD mode. 2. Receive the signal of the DVD signal generator. (Component signal) (Window pattern) 3. Select the SUB-CONTRAST adjustment mode (DVD) with the remote controller, and adjust 50% white to 165 ± 10 cd.	

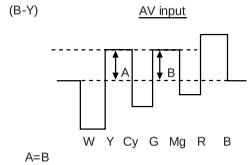
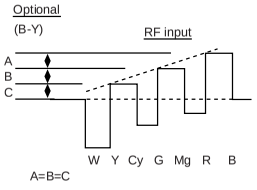
HORIZONTAL AND VERTICAL DEFLECTION LOOP ADJUSTMENT

No.	Adjusting point	Adjusting condition/procedure	Waveform or others
1	**MAIN SCREEN ADJUSTMENT**		
	V-AMP 50	Adjust the overscan to 8.5%.(monoscope)	
	V-LINE 50	Adjust the linearity to the best.(monoscope)	 Fig. 7-1
	V S-CORR 50	Already preset. (Adjust this unless the linearity is achieved.) (monoscope)	
	V-CENT 50	Align the center of the screen to the geometric center of CRT.(monoscope)	
	H-CENT 50	Align the center of the screen to the geometric center of CRT.(monoscope)	
	H-SIZE 50	Adjust the overscan to 8.5%.(monoscope)	 Fig. 7-2
	E/W-PAR 50	Adjust the 2nd vertical line from the right end of the crosshatch pattern so that the midddle 4 blocks are straight. (Refer to Fig.7-1)(crosshatch)	
	E/W-COR 50	Adjust the 2nd vertical line from the right end of the crosshatch pattern so that the top are straight. (Refer to Fig.7-2)(crosshatch)	
	TRAPE 50	Adjust the 2nd vertical line from the right end of the crosshatch pattern so that the D1 (center area of the second vertical line-edge of screen) and D2 (top area of the second vertical line-edge of screen) are same.(Refer to Fig.7-3)	 Fig. 7-3
	V-EHT	Already preset.	
	H-EHT	Already preset.	
	OTHER	On the items of V-AMP 60, V-LINE 60, V S-CORR 60, V-CENT 60, H-CENT 60, H-SIZE 60, E/W-PAR 60, E/W-COR 60 and TRAPE 60, the data is automatically input if the 50Hz mode adjusutment is done. however, if it is largely devisted when it is check in the 60Hz. Mode Readjust in the 60Hz. Mode. Attention: Don't change 50Hz mode data after adjust 60Hz mode data.Because 60Hz mode data follow the 50Hz mode data automatically.	

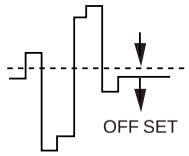
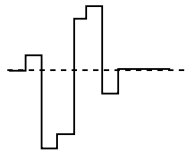
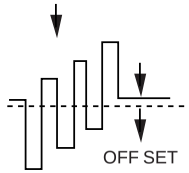
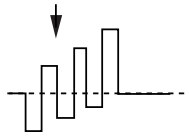
PAL CHROMA ADJUSTMENT

No.	Adjusting point	Adjusting condition/procedure	Waveform or others
1	**SUB COLOUR (I²C BUS CONTROL)**	1. Receive "PAL Colour Bar" signal. 2. Make the image normal with the remote controller. 3. Connect the oscilloscope to IC850#9pin. (Using 10:1 Probe) Range : 2 V/Div Sweep Time : 20 µ sec/Div 4. Set the sub-colour adjustment mode with the remote controller, and vary the sub colour data to make 75% W of the colour bar and RED at the same level for adjustment shown in Fig.8-1.	 Fig. 8-1

NTSC CHROMA ADJUSTMENT

No.	Adjusting point	Adjusting condition/procedure	Waveform or others
1	**SUB-TINT (I²C BUS CONTROL)**	1. Select the sub-tint adjustment mode (automatic Y cut) to receive the "NTSC Colour Bar" (AV input). 2. Connect the oscilloscope to TP47B ● Range : 20mV/Div. (AC)(Use Probe 10:1) ● Sweep time : 20 µsec/Div. 3. Vary the sub tint data to adjust the waveform to be gained as shown in Fig.9-1. TP47B.....(KY) 6pin **NOTE: (Optional)** **If using RF input, please refer to the Fig. 9-2 waveform.**	 Fig. 9-1  Fig. 9-2

SECAM CHROMA ADJUSTMENT(29WF500 only)

No.	Adjusting point	Adjusting condition/procedure	Waveform or others
1	**SECAM BLACK LEVEL R-Y/B-Y I²C BUS ADJUSTMENT**	1. Receive (SECAM colour bar). 2. Select SECAM black level adjustment R-Y mode. 3. Connect the oscilloscope to pin(20) of IC201(R out). ● Range : 10mV/Div. ● Sweep time : 20 μsec/Div.(Probe 10:1 is used) 4. Vary R-Y data to minimize the offset between the non-signal line and signal line as shown in Fig.10-1(b) 5. Select SECAM black level adjustment B-Y mode. 6. Reconnect the oscilloscope to 22pin of IC800 (B Out) The conditions are the same as in Item 3. 7. Vary B-Y data to minimize the offset between the non-signal line and signal (TP47RB) line as shown in Fig.10-2(b)	 Fig. 10-1(a)  Fig. 10-1(b)  Fig. 10-2(a)  Fig. 10-2(b)

FUNCTION OPERATION CHECKING (VIDEO AND AUDIO)

No.	Adjusting point	Adjusting condition/procedure	Waveform or others
1	**CONTRAST key**	1. Receive "Monoscope Pattern" signal. 2. Press to MENU mode, then Select Picture Mode and set to select CONTRAST. 3. Press Volume Up/Down key to check whether the CONTRAST effect is OK or not.	
2	**COLOUR key**	1. Receive "Colour Bar" signal. 2. Press to MENU mode, then Select Picture Mode and set to select COLOUR. 3. Press Volume Up/Down key to check whether the COLOUR effect is OK or not.	
3	**BRIGHTNESS key**	1. Receive "Monoscope Pattern" signal. 2. Press to MENU mode, then Select Picture Mode and set to select BRIGHTNESS. 3. Press Volume Up/Down key to check whether the BRIGHTNESS effect is OK or not.	
4	**TINT key**	1. Receive the "NTSC Colour Bar" signal thru AV in. 2. Press to MENU mode, then Select Picture Mode and set to selectTINT. 3. Press Volume Up/Down key to check TINT, UP for GREEN direction and DOWN for RED direction whether is OK or not.	
5	**SHARPNESS Key**	1. Receive "Monoscope Pattern" signal. 2. Press to MENU mode, then Select Picture Mode and set to select SHARPNESS. 3. Press Volume Up/Down key to check whether the SHARPNESS effect is OK or not.	
6	**CH DISPLAY COLOUR**	1. All Ch (1~99) will have an OSD display of the channel number in green colour under AFT ON condition.	
7	**NORMAL Key**	1. Once in PICTURE Mode, and the NORMAL key is pressed, all the settings will be present to normal setting. (Normal setting value for every mode, refer table on page8-1.)	**Notes:If nothing is display mean contrast, colour, bright, tint, sharpness are all in normal setting.**
8	**WHITE TEMP**	1. Receive "Monoscope Pattern" signal. 2. Set FUNCTION to select WHITE TEMP. 3. Press Volume Up/Down key to check WHITE TEMP Option, STANDARD: NORMAL SETTING, WARM for more REDDISH direction changing, COOL for more BLUISH direction changing.	

FUNCTION OPERATION CHECKING (VIDEO AND AUDIO)

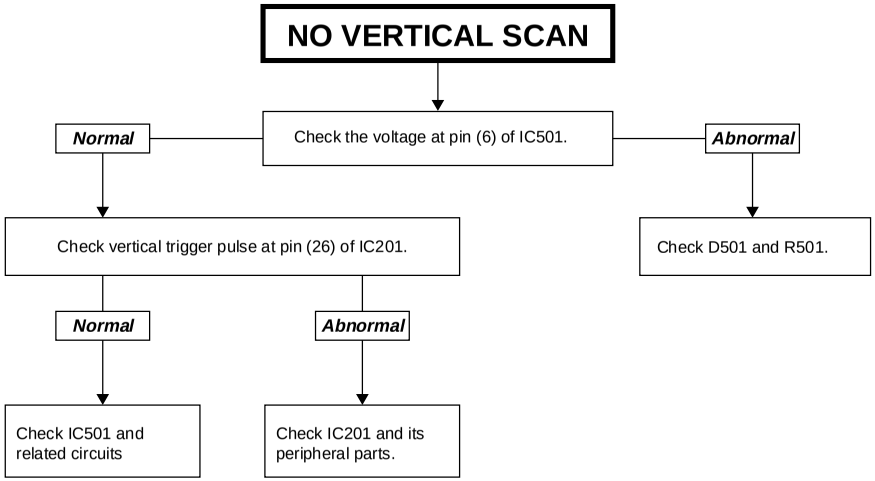
(Continued)

No.	Adjusting point	Adjusting condition/procedure	Waveform or others
9	**COLOUR SYSTEM (29WF500 only)**	1. Receive the "PAL COLOUR BAR" signal, press the COLOUR SYSTEM key to select modes except PAL, check the COLOUR is not working properly. Then, select the "PAL" mode. Check again its colour so that it is working properly. 2. Receive "SECAM COLOUR BAR" signal, press COLOUR SYSTEM key to select modes except SECAM, check the COLOUR is not working properly. Then, select the "SECAM" mode. Check again its colour so that it is working properly. 3. Receive “NTSC 4.43” signal, press COLOUR SYSTEM key to select modes except NTSC4.43, check the COLOUR is not working properly. Then, select the “NTSC 4.43” mode. Check again its colour so that it is working properly. 4. Receive “NTSC 4.43/3.58 COLOUR BAR” signal thru AV, press COLOUR SYSTEM key to select modes except N4.43/3.58, check the COLOUR is not working properly. Then, select the “NTSC 4.43/3.58” mode. Check again its colour so that it is working properly.	
10	**SOUND SYSTEM (29WF500 only)**	1. Receive “PAL-D/K” signal, press the “SOUND SYSTEM” to select B/G, I. Check the sound output is not working properly. Select D/K and check the sound output to make sure it is working properly. 2. Receive “PAL-I” signal, press the “SOUND SYSTEM” to select B/G, D/K. Check the sound output is not working properly. Select I and check the sound output to make sure it is working properly. 3. Receive “PAL-B/G” signal, press the “SOUND SYSTEM” to select I, D/K. Check the sound output is not working properly. Select B/G and check the sound output to make sure it is working properly.	
11	**HEADPHONE OUTPUT CHECKING**	1. Receive PAL COLOUR BAR with SOUND 400Hz, 100% MODULATION (±50kHz Dev). 2. Maximum volume, and check the headphone output with 400Hz sound and no sound out from speaker. (Ref: Output level of Headphone is as following Apx. 500mVp-p)	
12	**NOISE MUTE CHECKING**	1. Receive "PAL COLOUR BAR" signal. 2. Turn up the volume control to maximum, make sure the sound is beard from the speakers. Then put the unit in no signal state. 3. Check the sound mute is effective. 4. Finally turn sound level of CTV to minimum.	

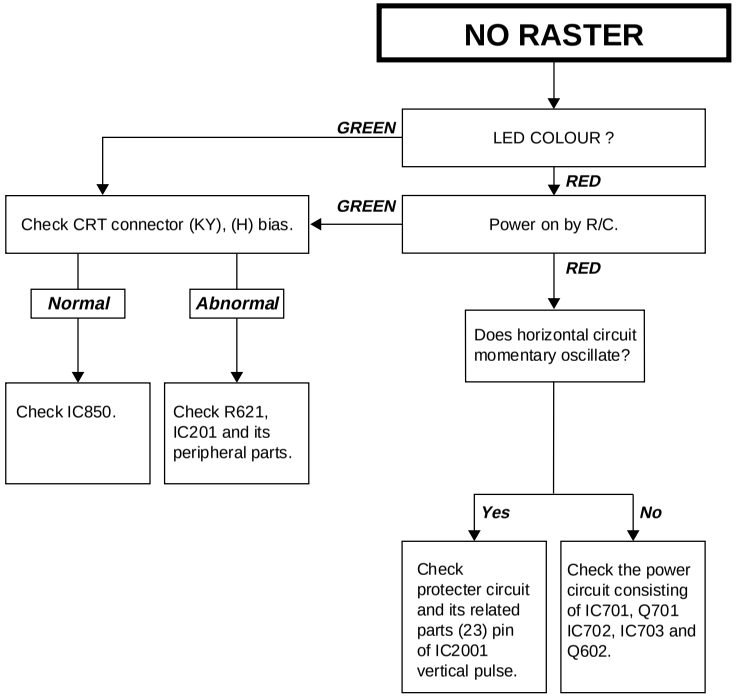
PROTECTOR OPERATION CHECKING

No.	Adjusting point	Adjusting condition/procedure	Waveform or others
1	**H•V PROTECTOR**	1. Receive E-5CH (Monoscope Pattern). 2. Connect the Bias Box to the cathode side (R653) of D652. 3. Set the voltage of the Bias Box at 10V, and verify that the protector does not operate. 4. Set the voltage of the Bias Box at 18V, and verify that the protector operate.	Reference Approx. 12.2V as ordinary.
2	**OTHER PROTECTORS OUTPUT CHECKING**	* Correspondence for short circuit of smoothing electrolysis of +B line and so on. To check the operation of protector and so on, take care for the breakage, deterioration and so on of each element.	

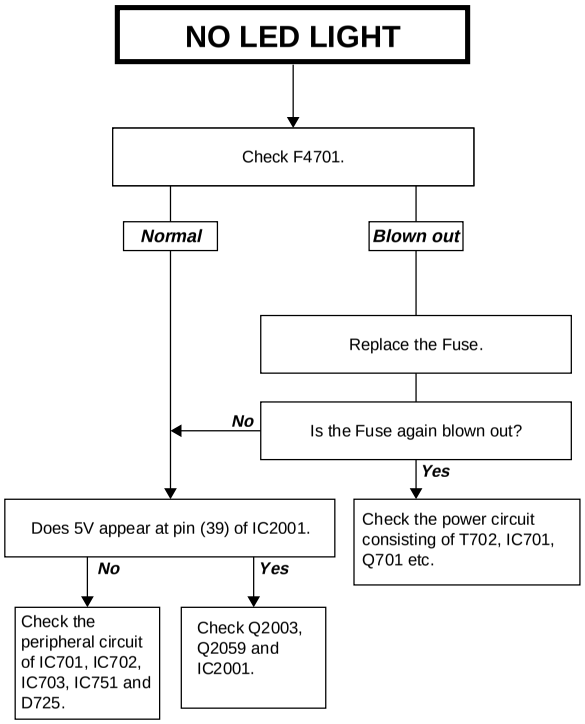
TROUBLE SHOOTING FLOWCHART



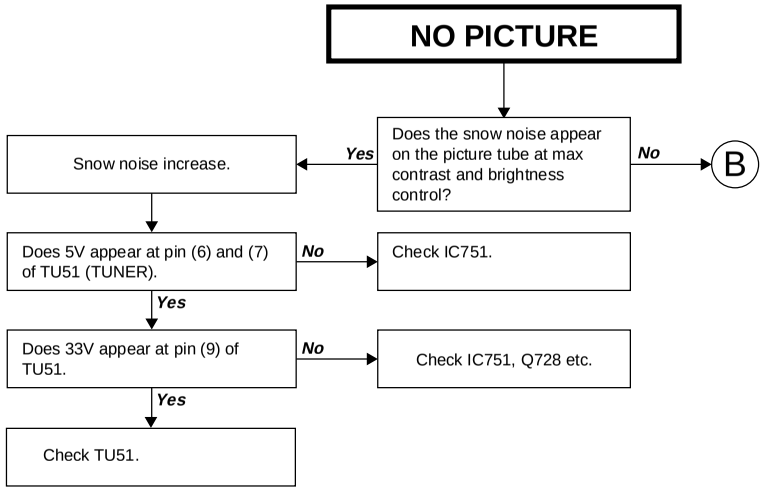
TROUBLE SHOOTING FLOWCHART (Continued)



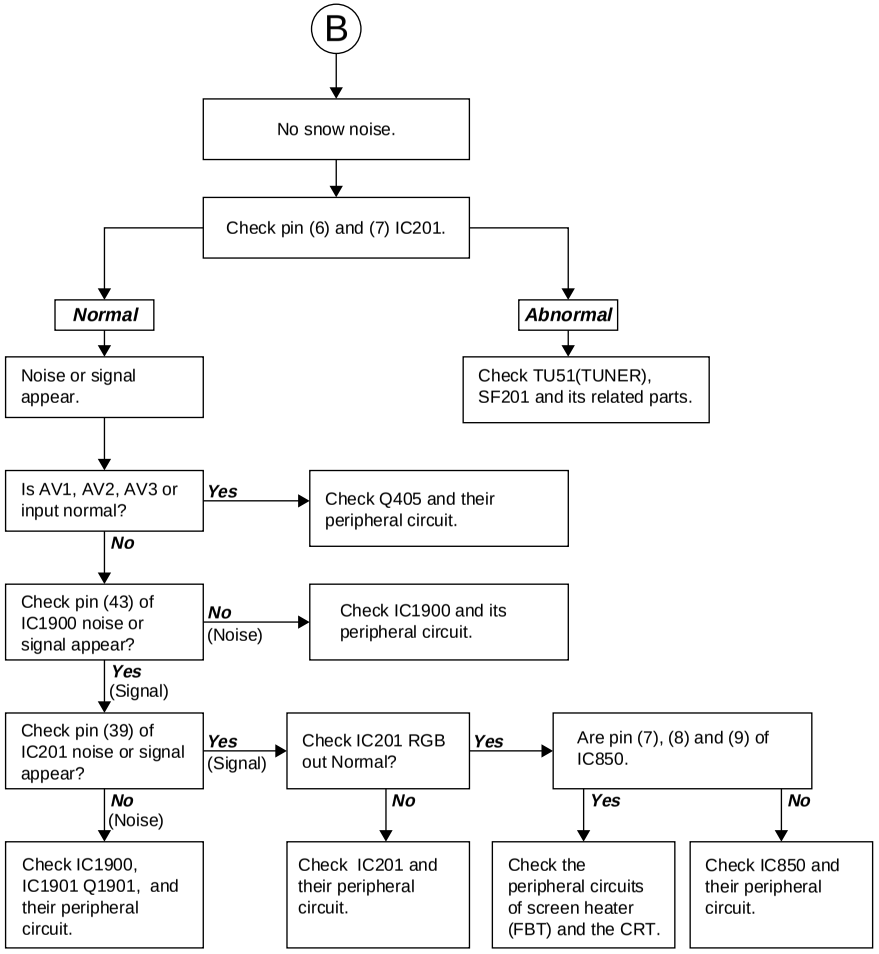
TROUBLE SHOOTING FLOWCHART (Continued)



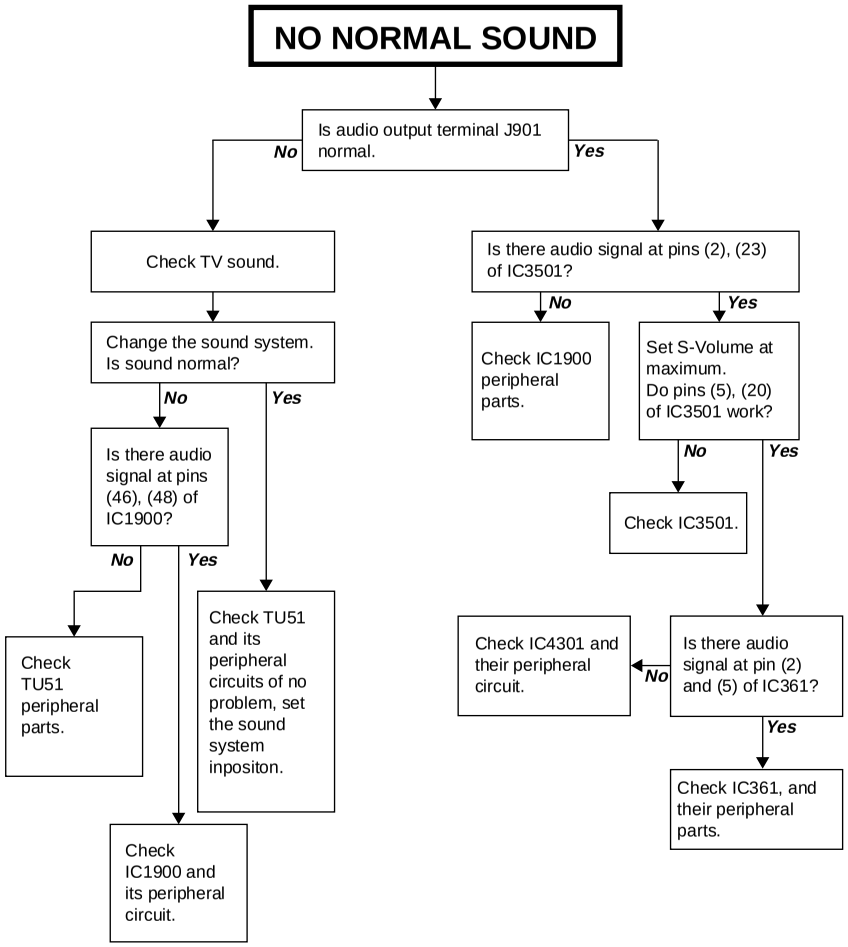
TROUBLE SHOOTING FLOWCHART (Continued)



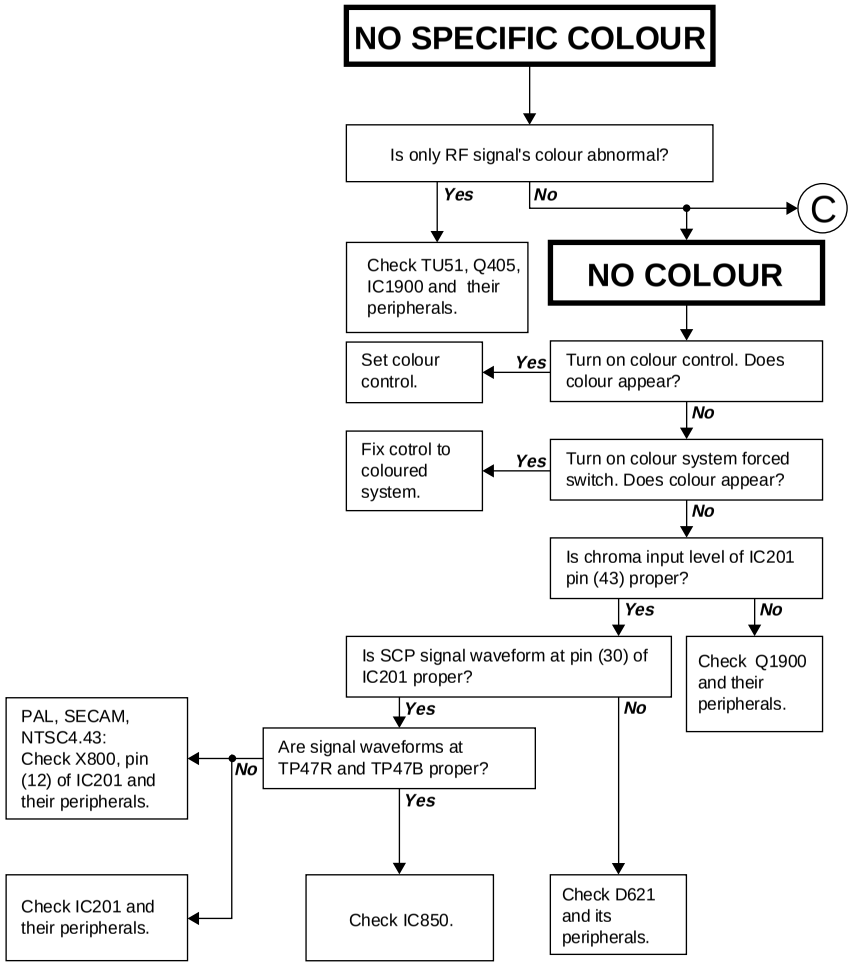
TROUBLE SHOOTING FLOWCHART (Continued)


B
No snow noise.
Check pin (6) and (7) IC201.
Normal
Abnormal
Noise or signal appear.
Check TU51(TUNER), SF201 and its related parts.
Is AV1, AV2, AV3 or input normal?
Yes
Check Q405 and their peripheral circuit.
No
Check pin (43) of IC1900 noise or signal appear?
No (Noise)
Check IC1900 and its peripheral circuit.
Yes (Signal)
Check pin (39) of IC201 noise or signal appear?
Yes (Signal)
Check IC201 RGB out Normal?
Yes
Are pin (7), (8) and (9) of IC850.
No (Noise)
No
Yes
No
Check IC1900, IC1901 Q1901, and their peripheral circuit.
Check IC201 and their peripheral circuit.
Check the peripheral circuits of screen heater (FBT) and the CRT.
Check IC850 and their peripheral circuit.

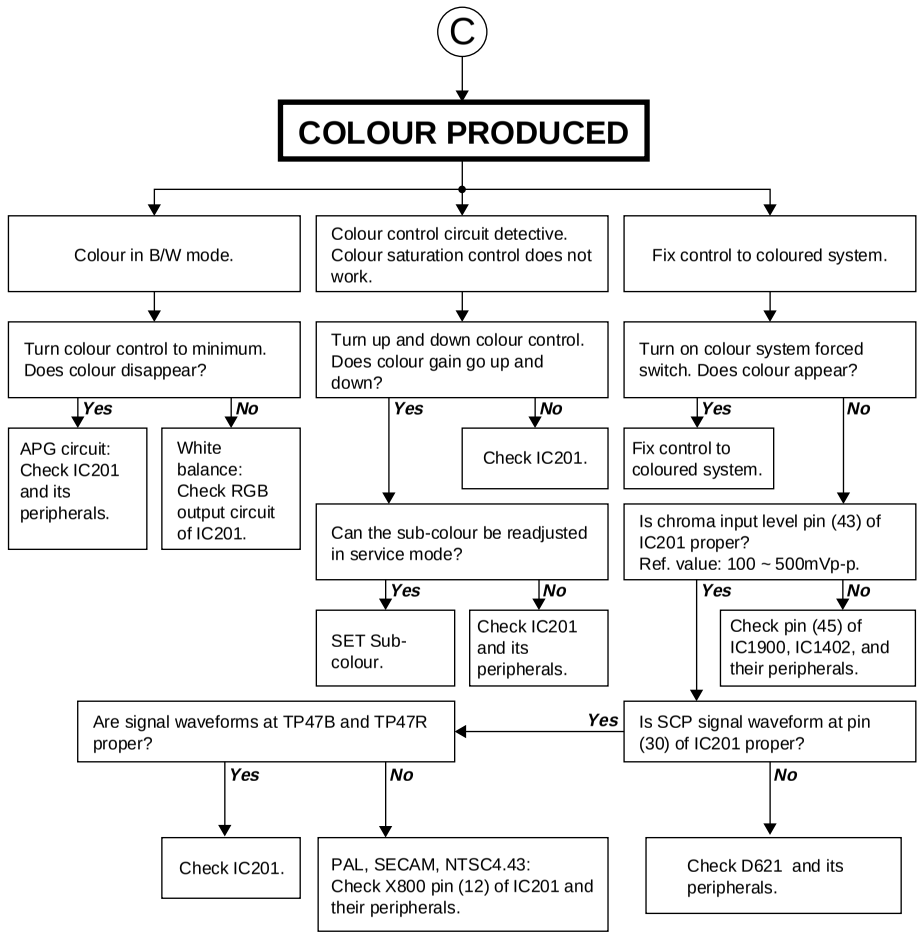
TROUBLE SHOOTING FLOWCHART (Continued)


NO NORMAL SOUND
Is audio output terminal J901 normal.
No
Yes
Check TV sound.
Change the sound system. Is sound normal?
No
Yes
Is there audio signal at pins (46), (48) of IC1900?
No
Yes
Check TU51 peripheral parts.
Check TU51 and its peripheral circuits of no problem, set the sound inpositon.
Check IC1900 and its peripheral circuit.
Is there audio signal at pins (2), (23) of IC3501?
No
Yes
Check IC1900 peripheral parts.
Set S-Volume at maximum. Do pins (5), (20) of IC3501 work?
No
Yes
Check IC3501.
Check IC4301 and their peripheral circuit.
No
Is there audio signal at pin (2) and (5) of IC361?
Yes
Check IC361, and their peripheral parts.

TROUBLE SHOOTING FLOWCHART (Continued)

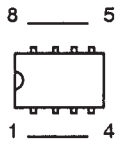


TROUBLE SHOOTING FLOWCHART (Continued)

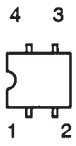

C
COLOUR PRODUCED
Colour in B/W mode.
Colour control circuit detective. Colour saturation control does not work.
Fix control to coloured system.
Turn colour control to minimum. Does colour disappear?
Turn up and down colour control. Does colour gain go up and down?
Turn on colour system forced switch. Does colour appear?
Yes
No
APG circuit: Check IC201 and its peripherals.
White balance: Check RGB output circuit of IC201.
Check IC201.
Fix control to coloured system.
Can the sub-colour be readjusted in service mode?
Is chroma input level pin (43) of IC201 proper? Ref. value: 100 ~ 500mVp-p.
SET Sub-colour.
Check IC201 and its peripherals.
Check pin (45) of IC1900, IC1402, and their peripherals.
Are signal waveforms at TP47B and TP47R proper?
Is SCP signal waveform at pin (30) of IC201 proper?
Check IC201.
PAL, SECAM, NTSC4.43: Check X800 pin (12) of IC201 and their peripherals.
Check D621 and its peripherals.

SOLID STATE DEVICE BASE DIAGRAM

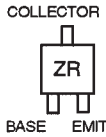
TOP VIEW



M24C08B
CAT24W08



FX0008GE



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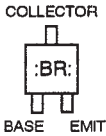

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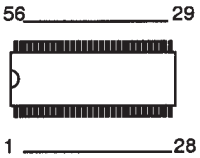

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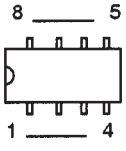

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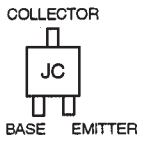

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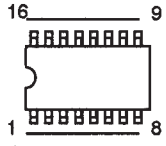

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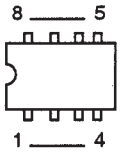

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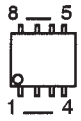

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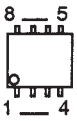

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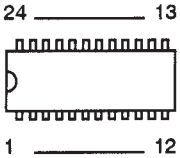

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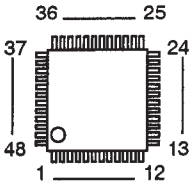

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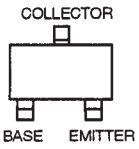

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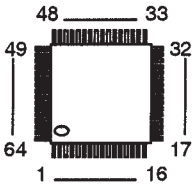

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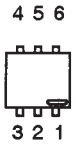

iMZ1A
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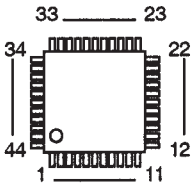
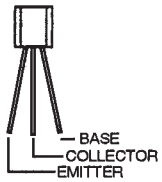


iX3593CE

SIDE VIEW



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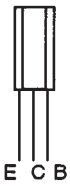

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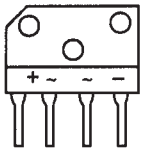

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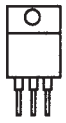

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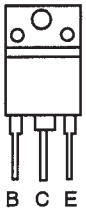

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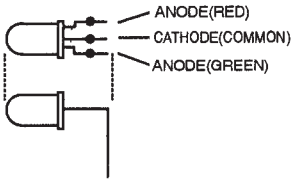

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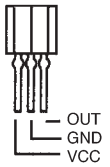

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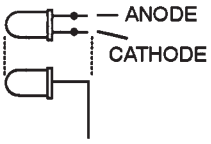

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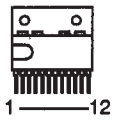

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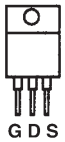

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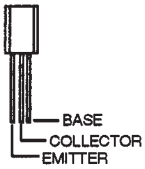

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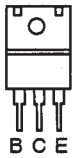

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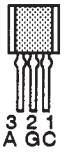

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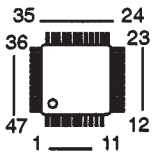

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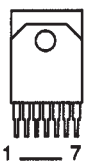

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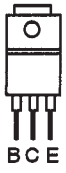

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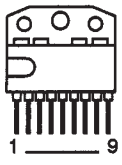

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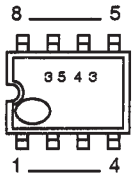
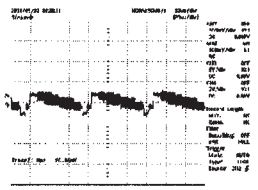
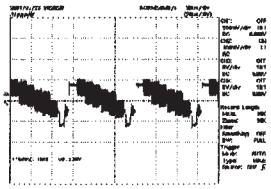


BH3543F

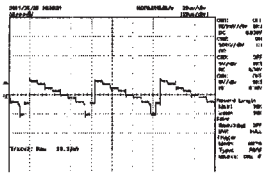
WAVEFORMS



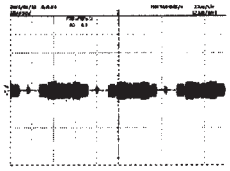
① Horizontal Rate
Pin 1 Vp-p=1.2v



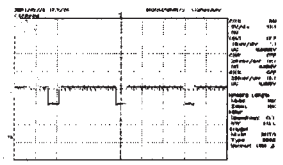
② Horizontal Rate
Pin 2 Vp-p=2.3v



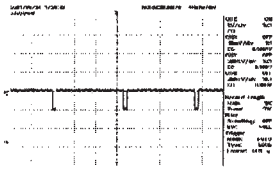
③ Horizontal Rate
Pin 3 Vp-p=1.0v



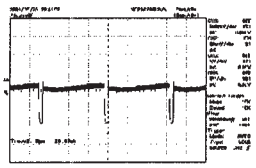
④ Horizontal Rate
Pin 4 Vp-p=0.5v



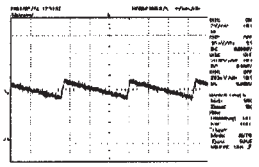
⑤ Horizontal Rate
Pin 5 Vp-p=5.0v



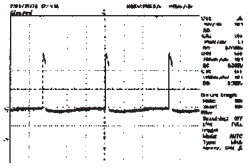
⑥ Vertical Rate
Pin 6Vp-p=5.0v



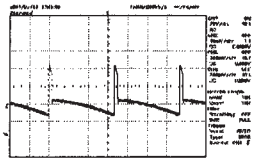
⑦ Vertical Rate
Pin 7 Vp-p=1.1v



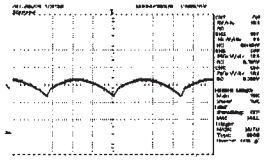
⑧ Vertical Rate
Pin 8 Vp-p=2.4v



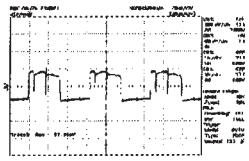
⑨ Vertical Rate
Pin 9 Vp-p=30.0v



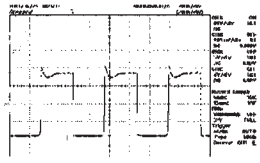
⑩ Vertical Rate
Pin 10 Vp-p=53.0v



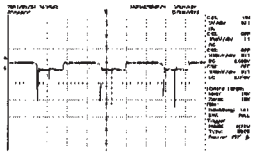
⑪ Vertical Rate
Pin 11 Vp-p=5.4v



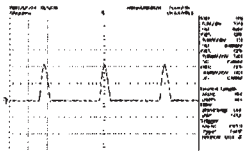
⑫ Horizontal Rate
Pin 12 Vp-p=0.8v



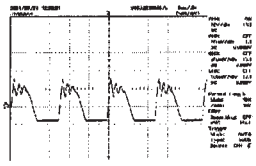
⑬ Horizontal Rate
Pin 13 Vp-p= 225.0v



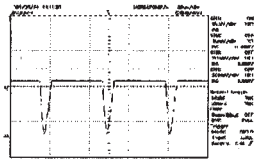
⑭ Horizontal Rate
Pin 14 Vp-p=15.0v



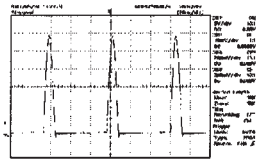
⑮ Horizontal Rate
Pin 15 Vp-p=1130.0v



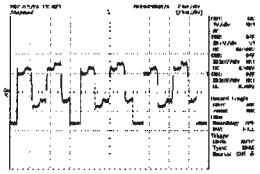
⑯ Horizontal Rate
Pin 16 Vp-p=440.0v



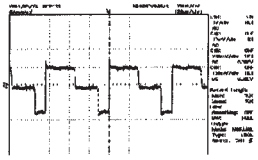
⑰ Horizontal Rate
Pin 17 Vp-p= 275.0v



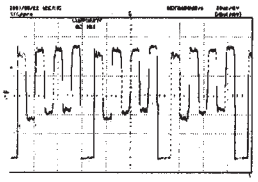
⑱ Horizontal Rate
Pin 18 Vp-p= 28.5v



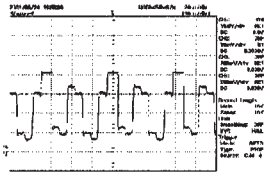
⑲ Horizontal Rate
Pin 19 Vp-p=3.0v



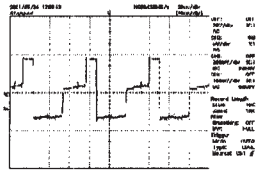
⑳ Horizontal Rate
Pin 20 Vp-p=3.0v



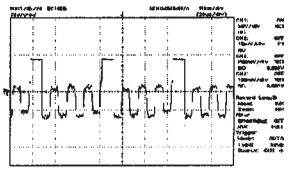
㉑ Horizontal Rate
Pin 21 Vp-p=3.0v



㉒ Horizontal Rate
Pin 22 Vp-p= 160.0v



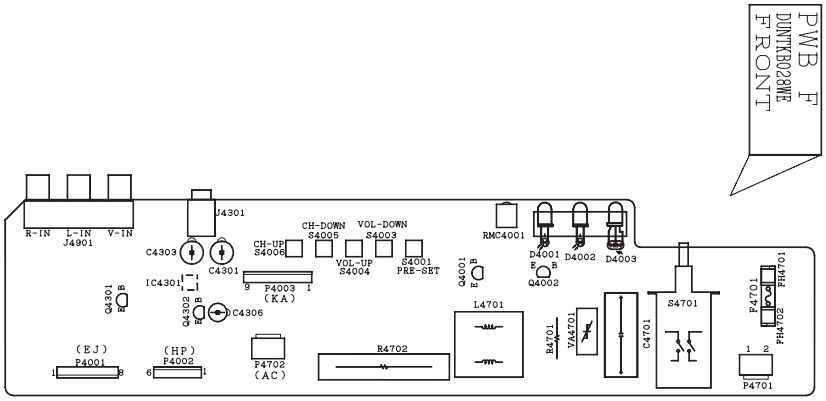
㉓ Horizontal Rate
Pin 23 Vp-p=150.0v

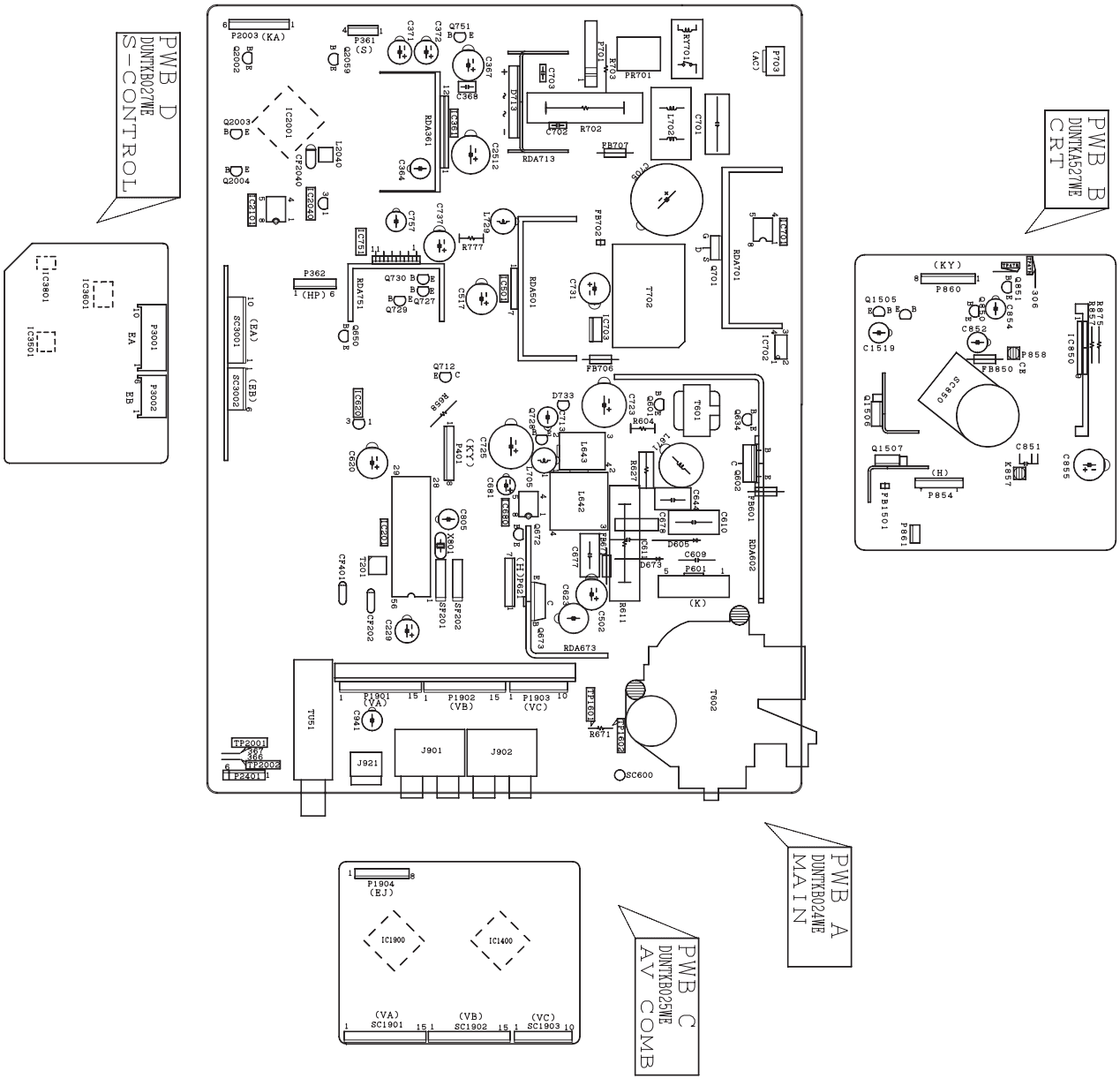


㉔ Horizontal Rate
Pin 24 Vp-p= 150.0v

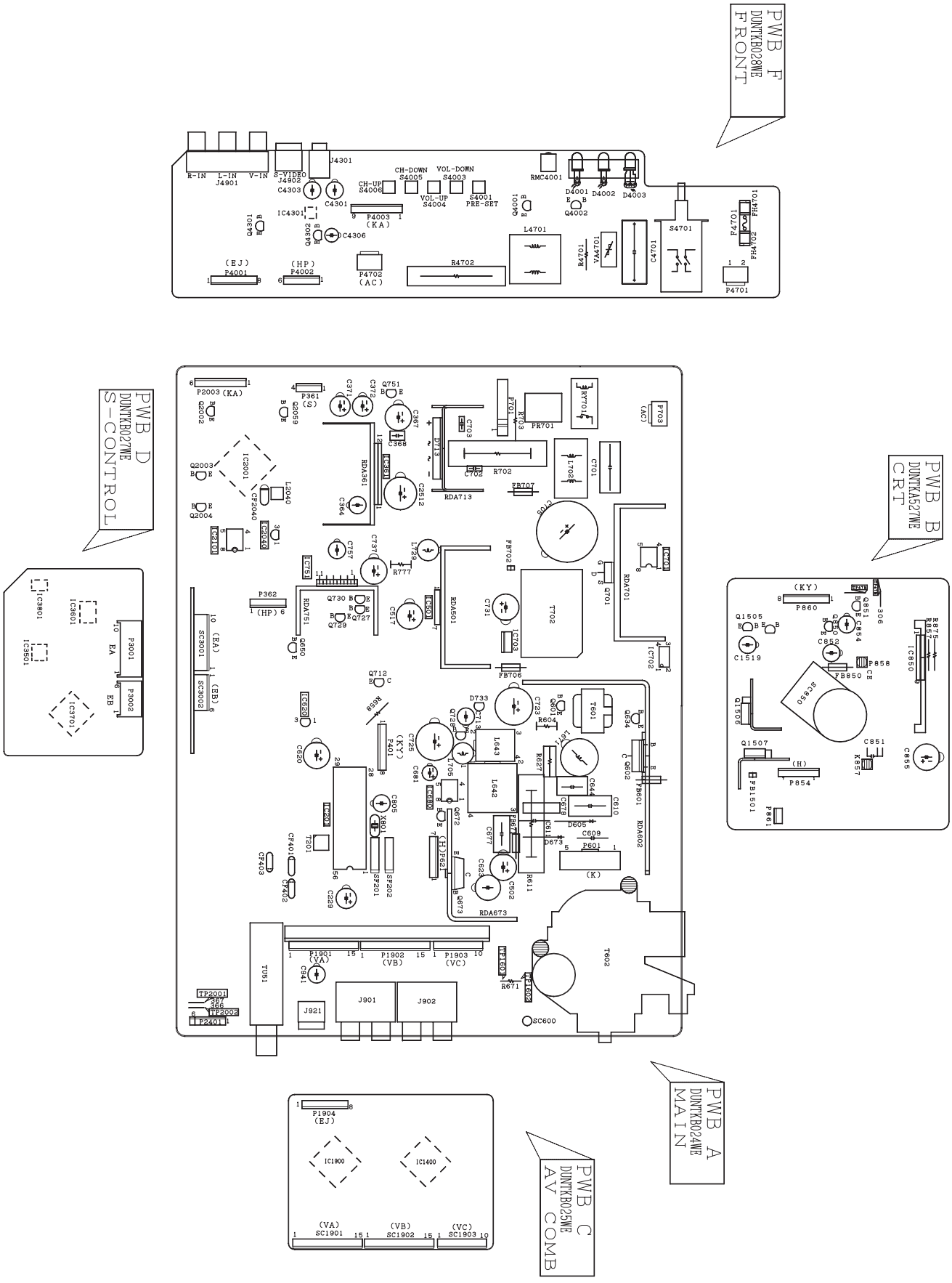
- M E M O -

MODEL 29WF200 CHASSIS LAYOUT

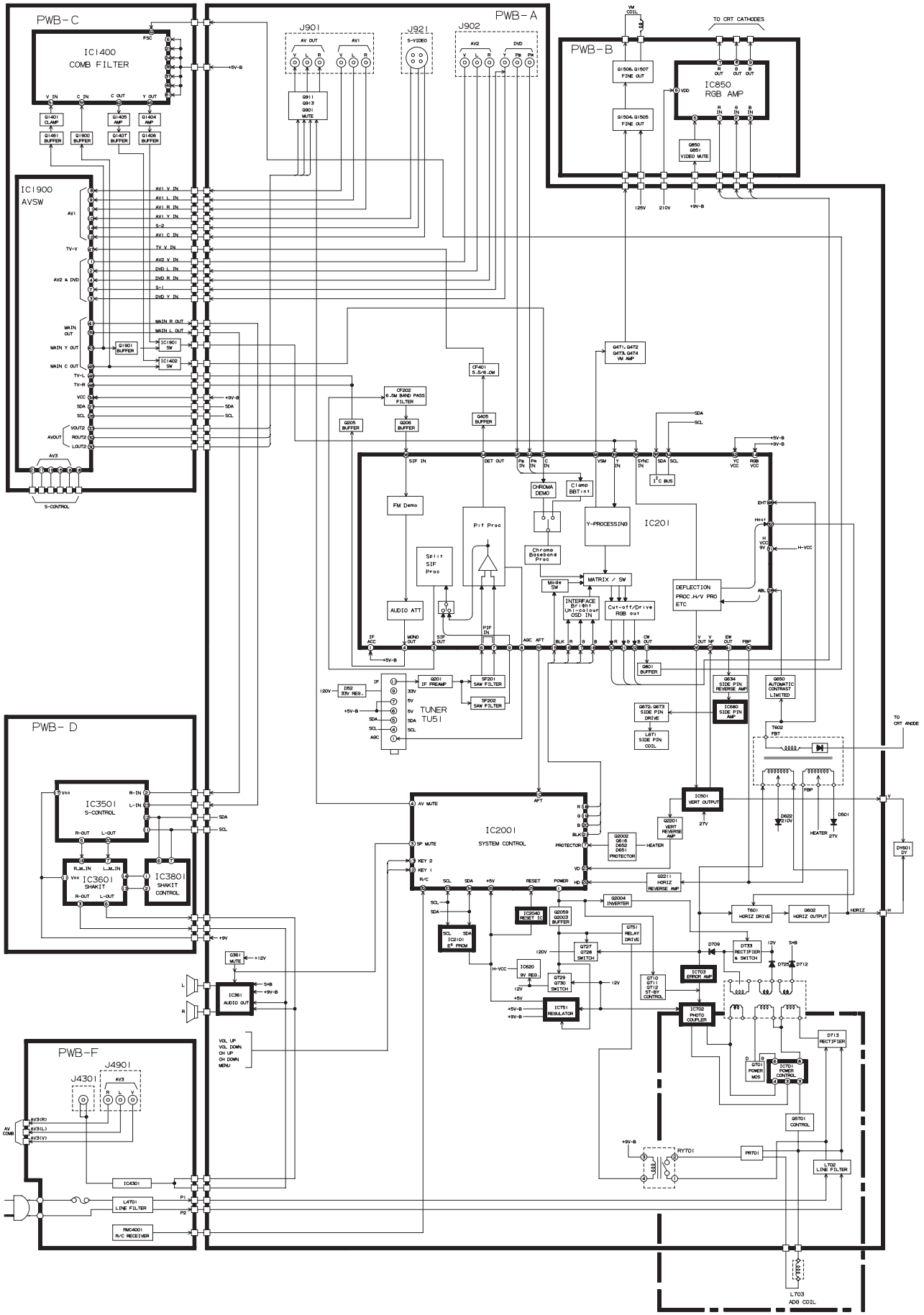




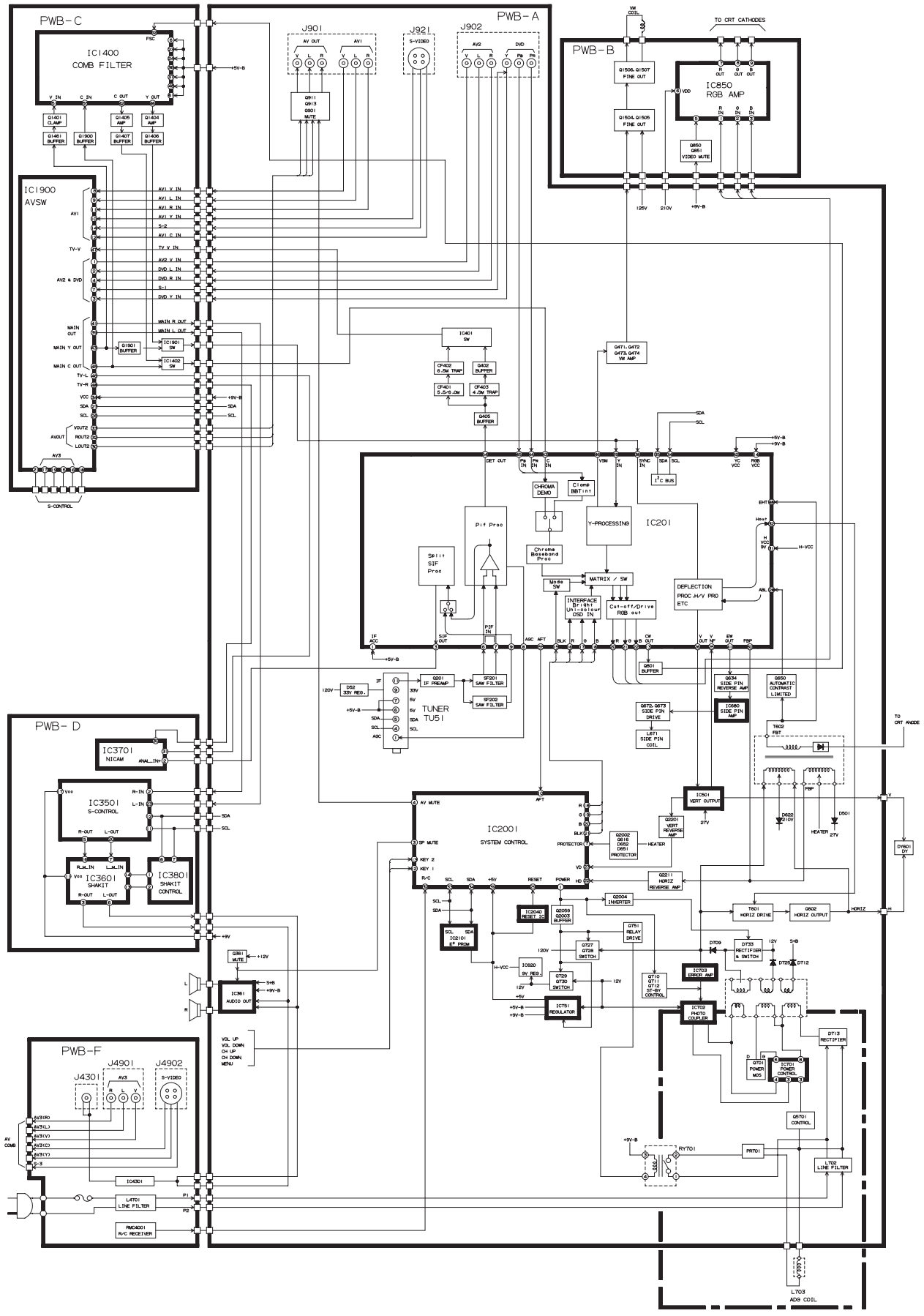
MODEL 29WF500 CHASSIS LAYOUT



BLOCK DIAGRAM (29WF200)



BLOCK DIAGRAM (29WF500)



DESCRIPTION OF SCHEMATIC DIAGRAM

SAFETY NOTES:

1. *DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.*
2. *SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.*

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠" ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

SERVICE PRECAUTION:

THE AREA ENCLOSED BY THIS LINE (▬ ▬ ▬) IS DIRECTLY CONNECTED WITH AC MAINS VOLTAGE.
WHEN SERVICING THE AREA, CONNECT AN ISOLATING TRANSFORMER BETWEEN TV RECEIVER AND AC LINE TO ELIMINATE HAZARD OF ELECTRIC SHOCK.

NOTES:

1. *The unit of resistance "ohm" is omitted. (K = 1000 ohms, M = Meg ohm).*
2. *All resistors are 1/16 watt, unless otherwise noted.*
3. *All capacitors are μF, unless otherwise noted. (P = μμF).*

VOLTAGE MEASUREMENT CONDITIONS:

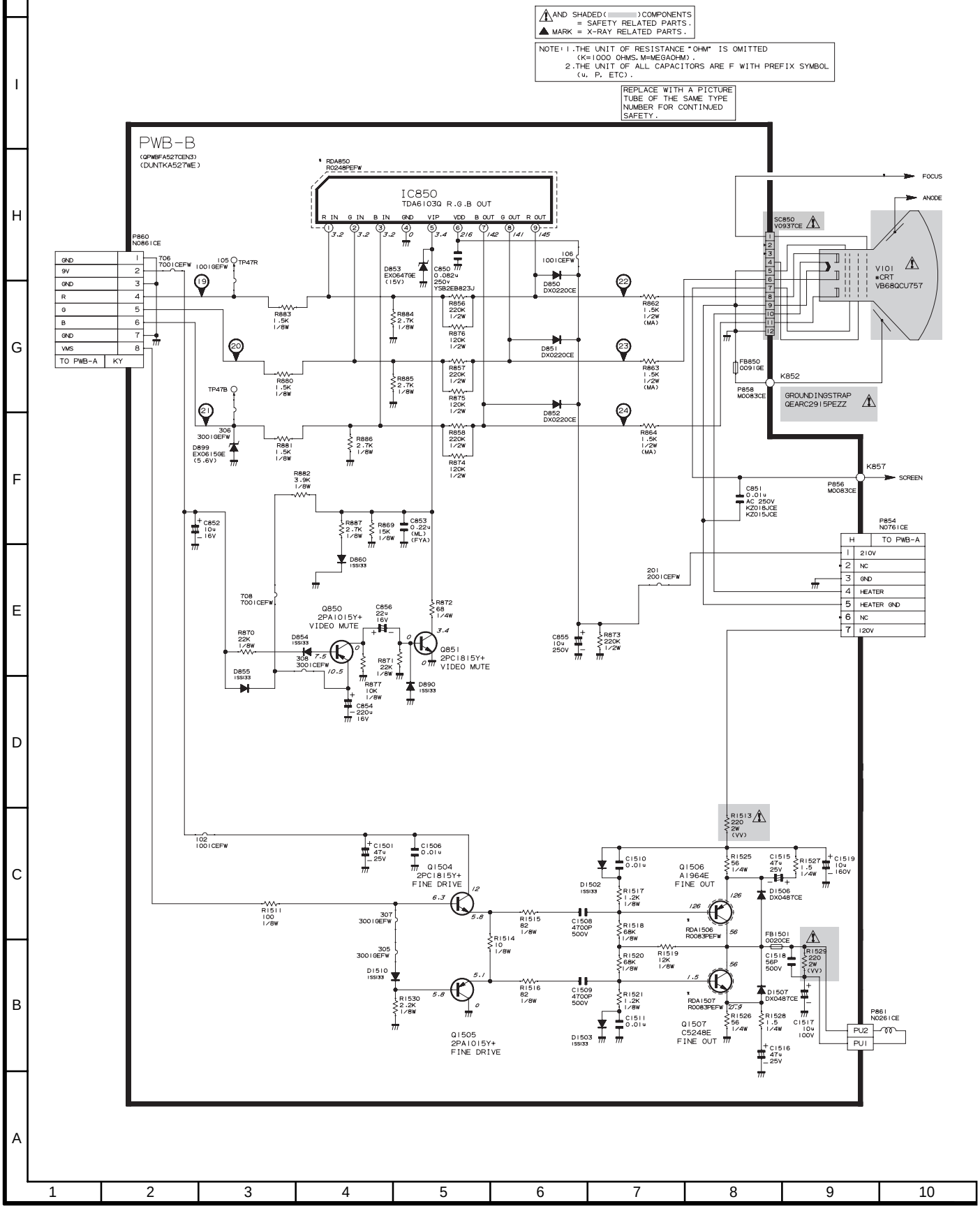
1. *Voltage in parenthesis measured with no Signal.*
2. *Voltages without parenthesis measured with PAL Colour-Signal.*
3. *All the voltages in each point are measured high impedance volt-meter.*

WAVEFORM MEASUREMENT CONDITIONS:

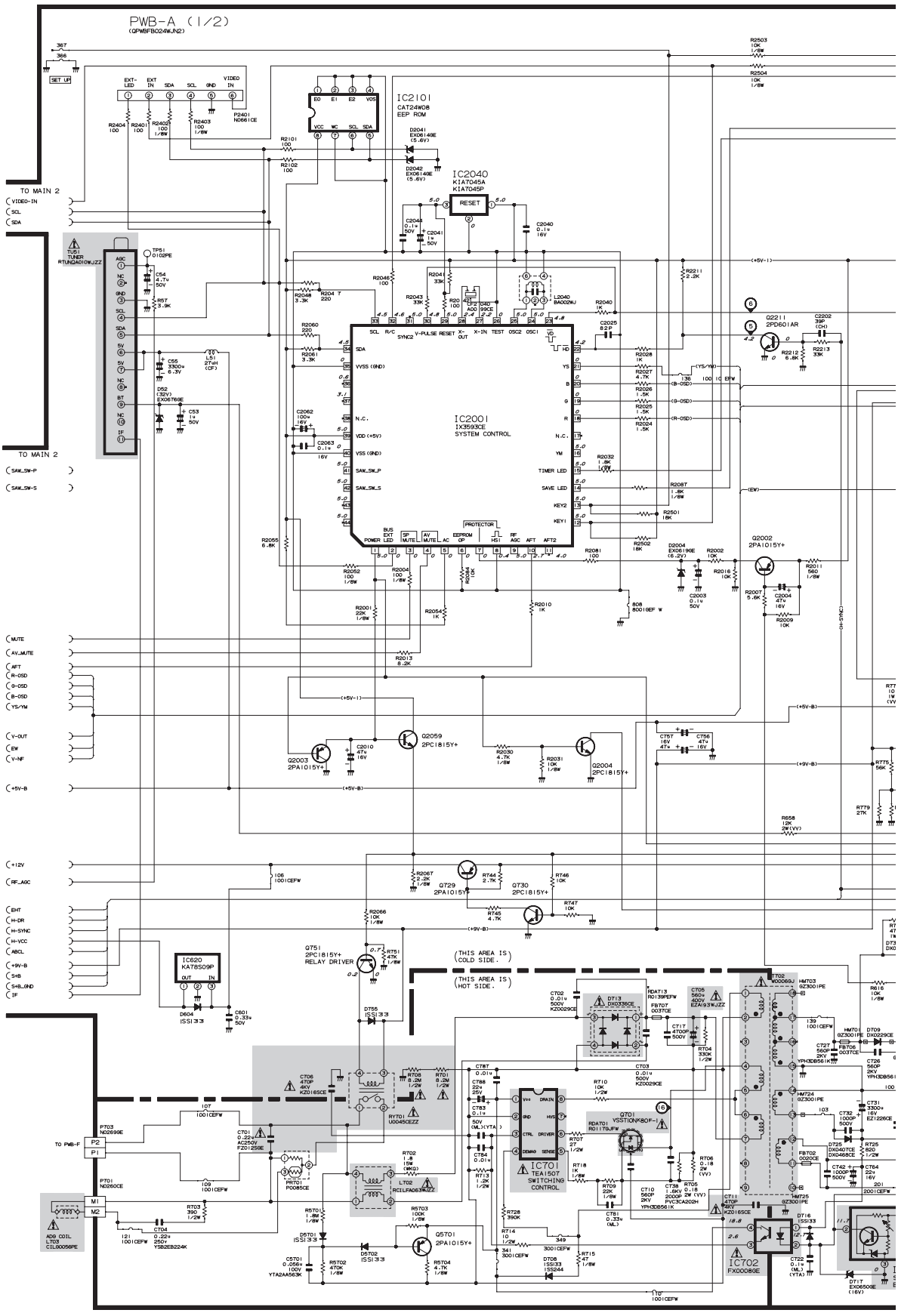
1. *Colour bar generator signal of 1.8V peak to peak applied at Base of Video Buffer Amp. Q405.*
2. *Approximately 4.0 V AGC bias.*

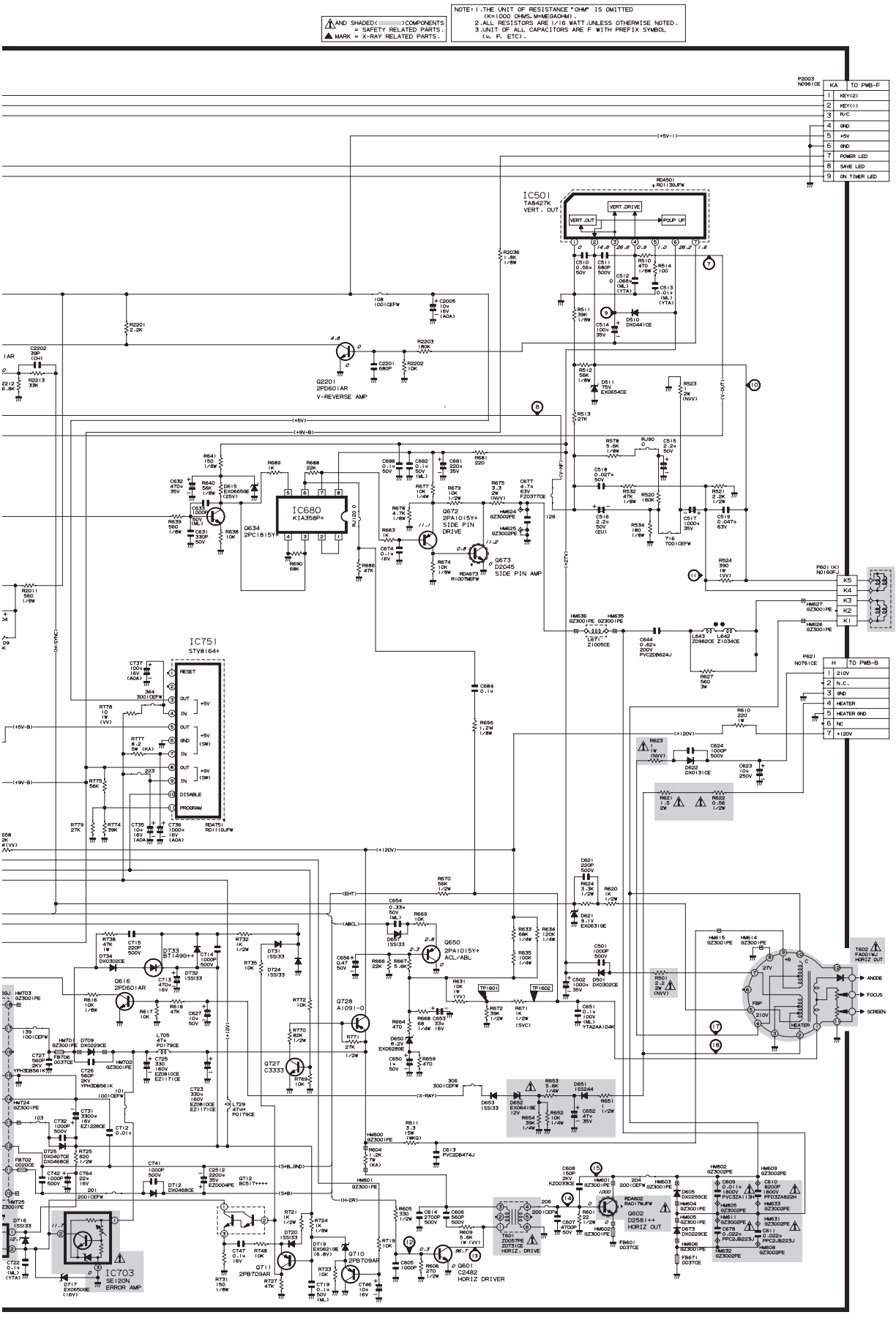
SCHEMATIC DIAGRAM

CRT UNIT



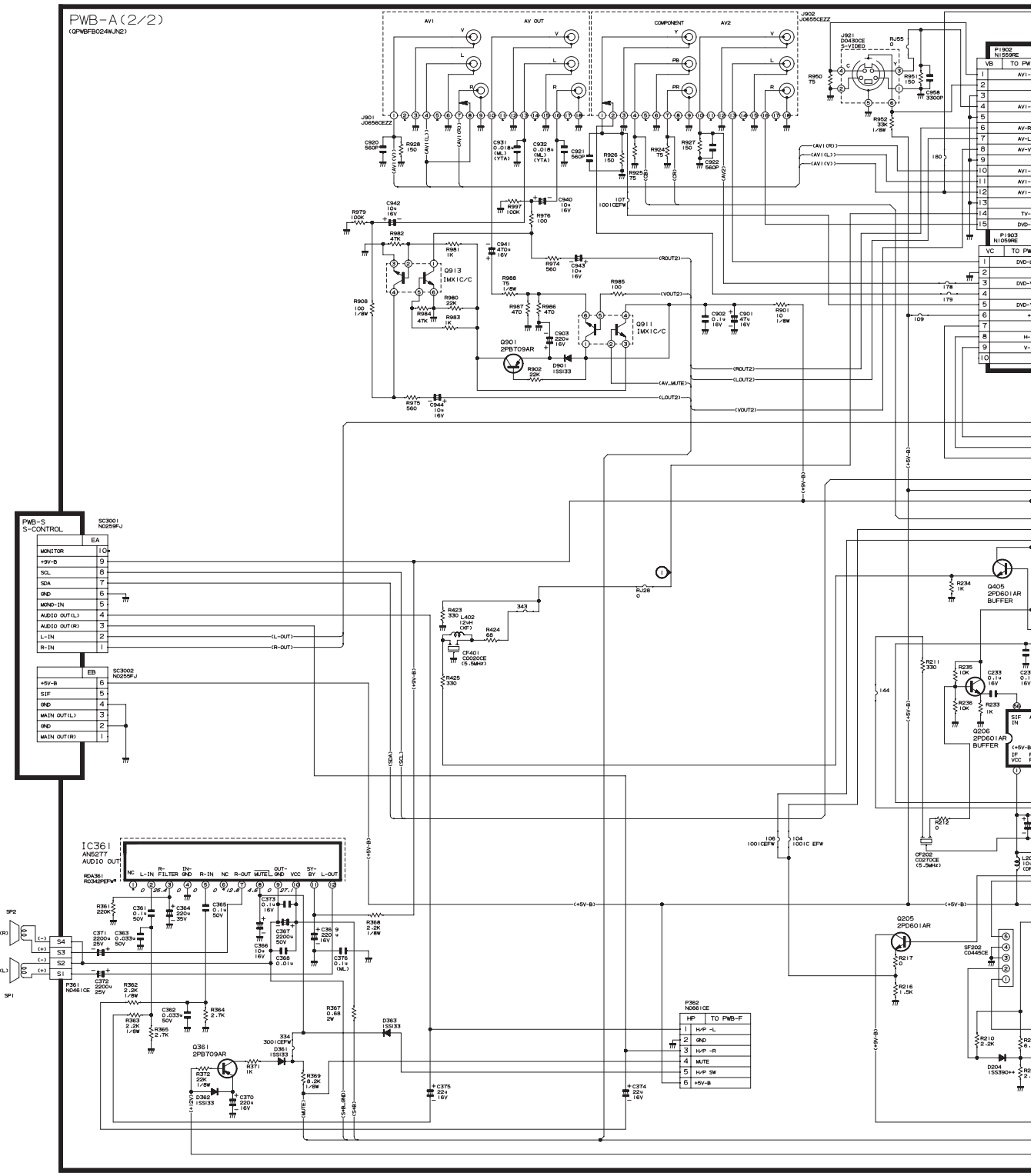
MAIN-1 UNIT (29WF200)

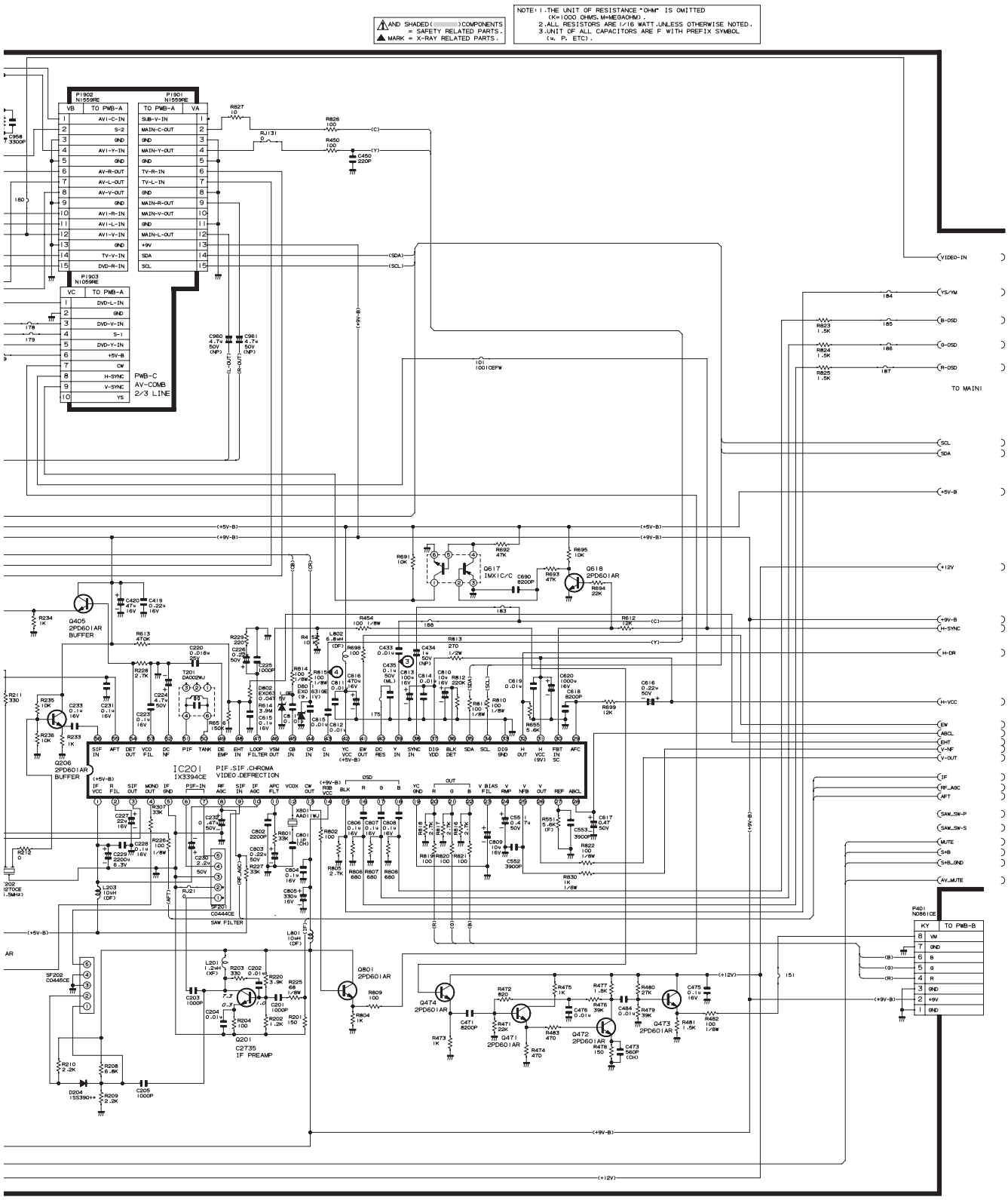




10	11	12	13	14	15	16	17	18	19

MAIN-2 UNIT (29WF200)





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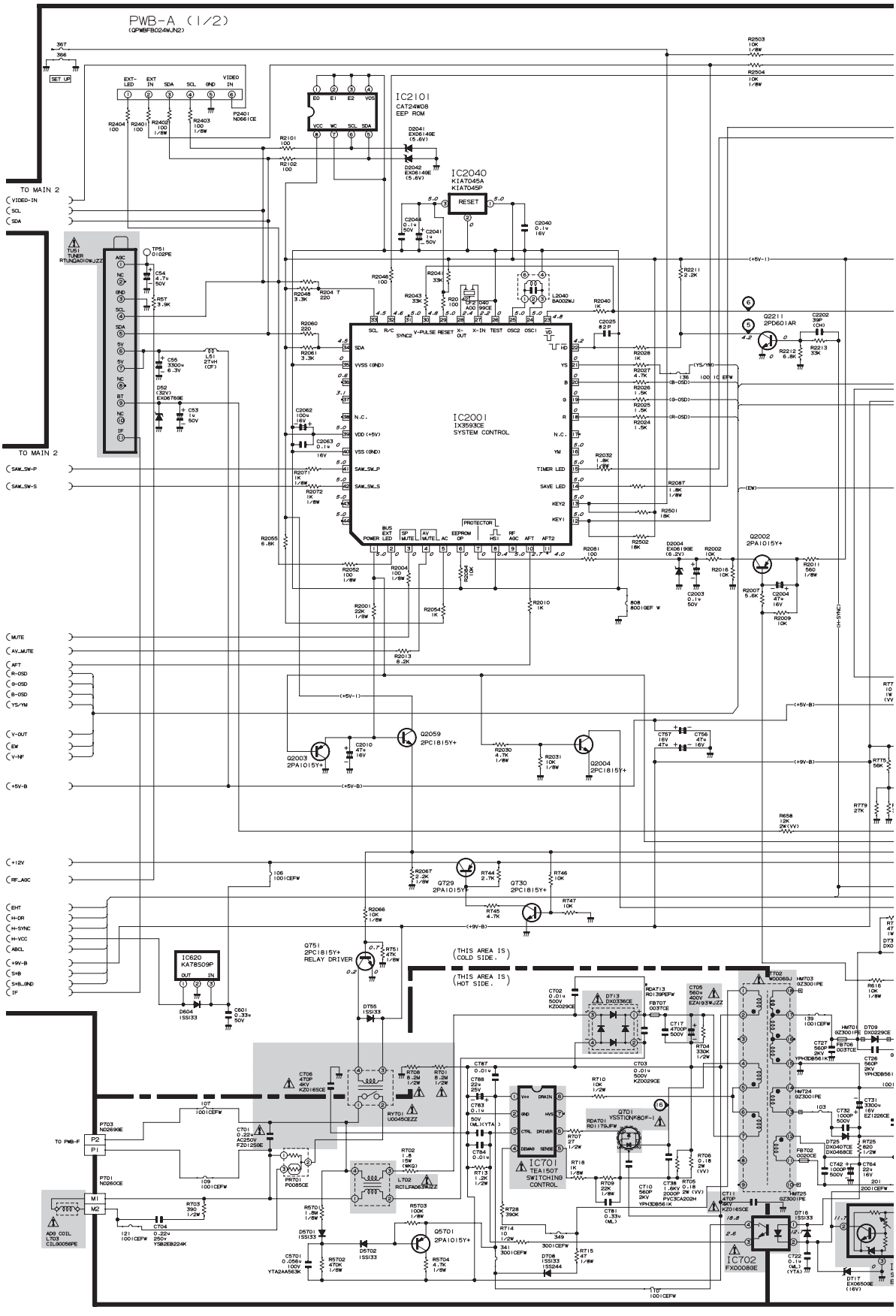
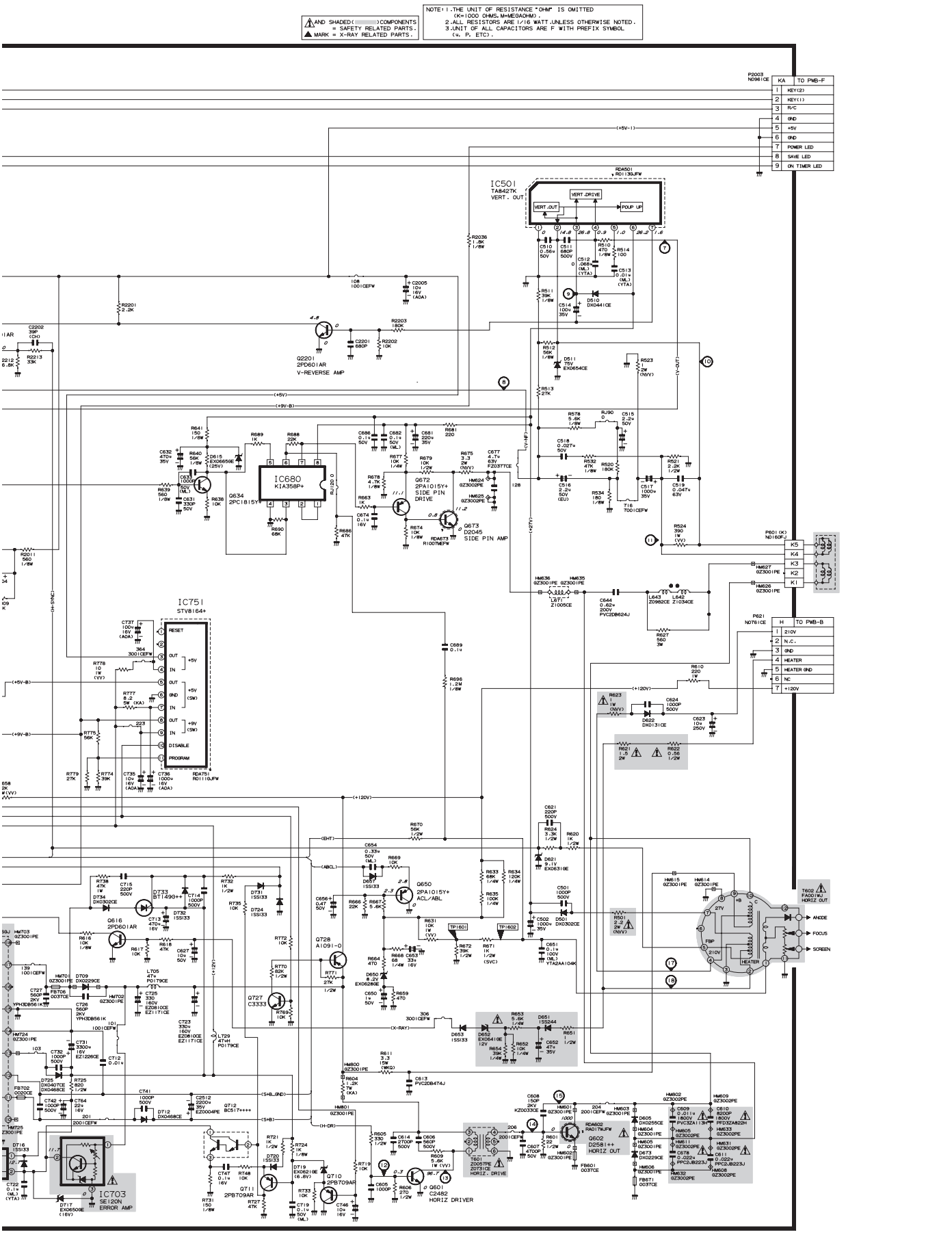
MAIN-1 UNIT (29WF500)





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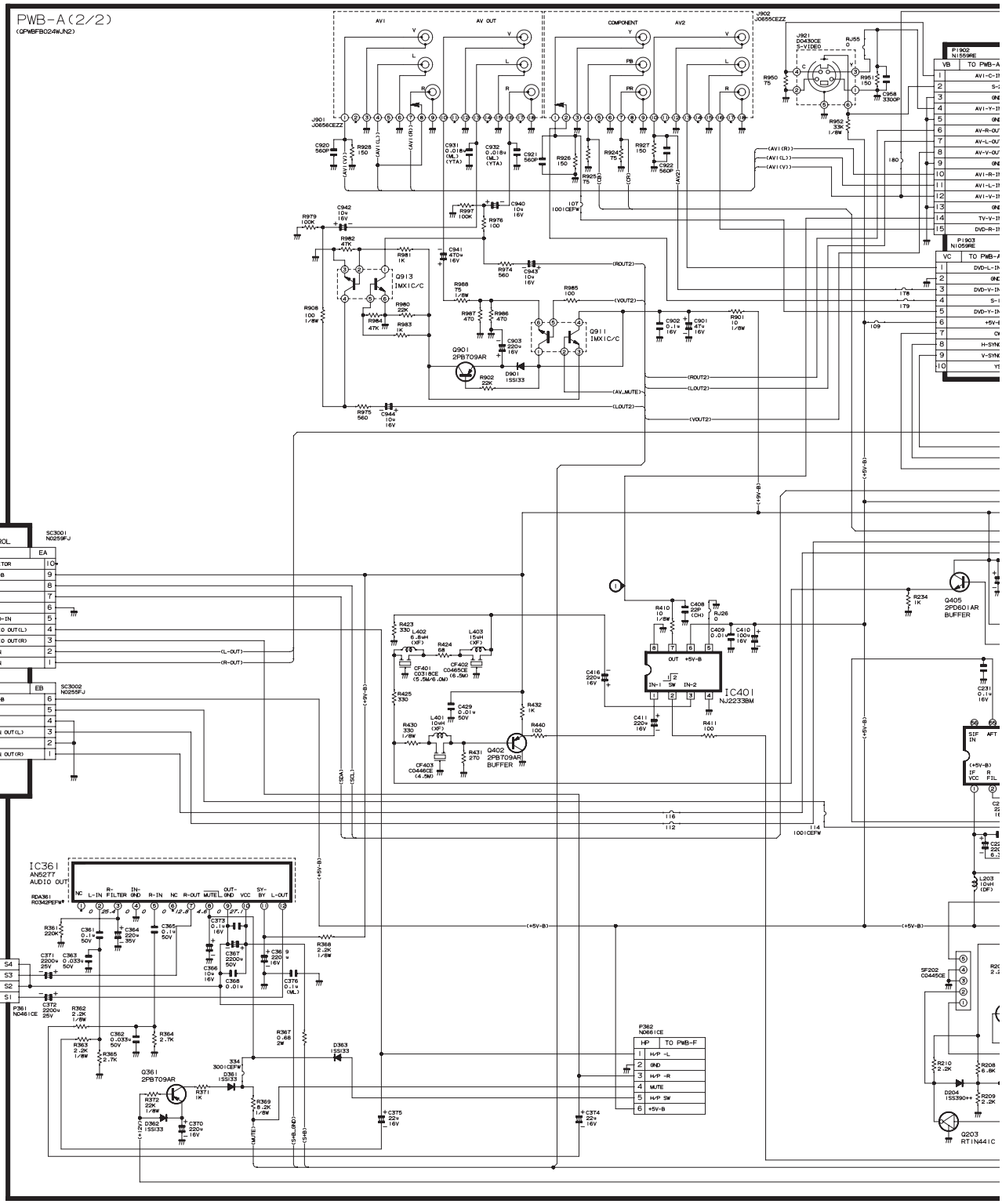
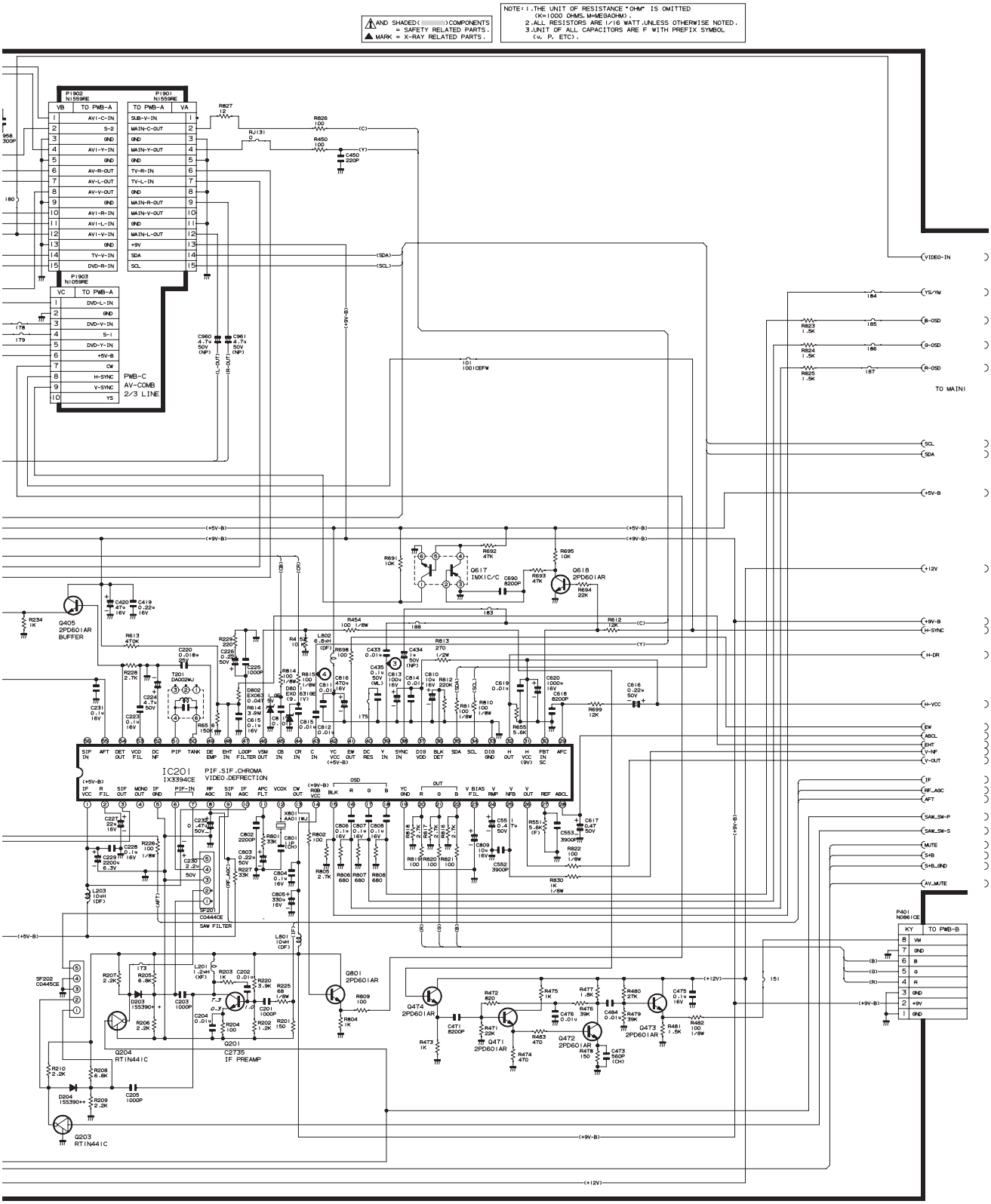
MAIN-2 UNIT (29WF500)





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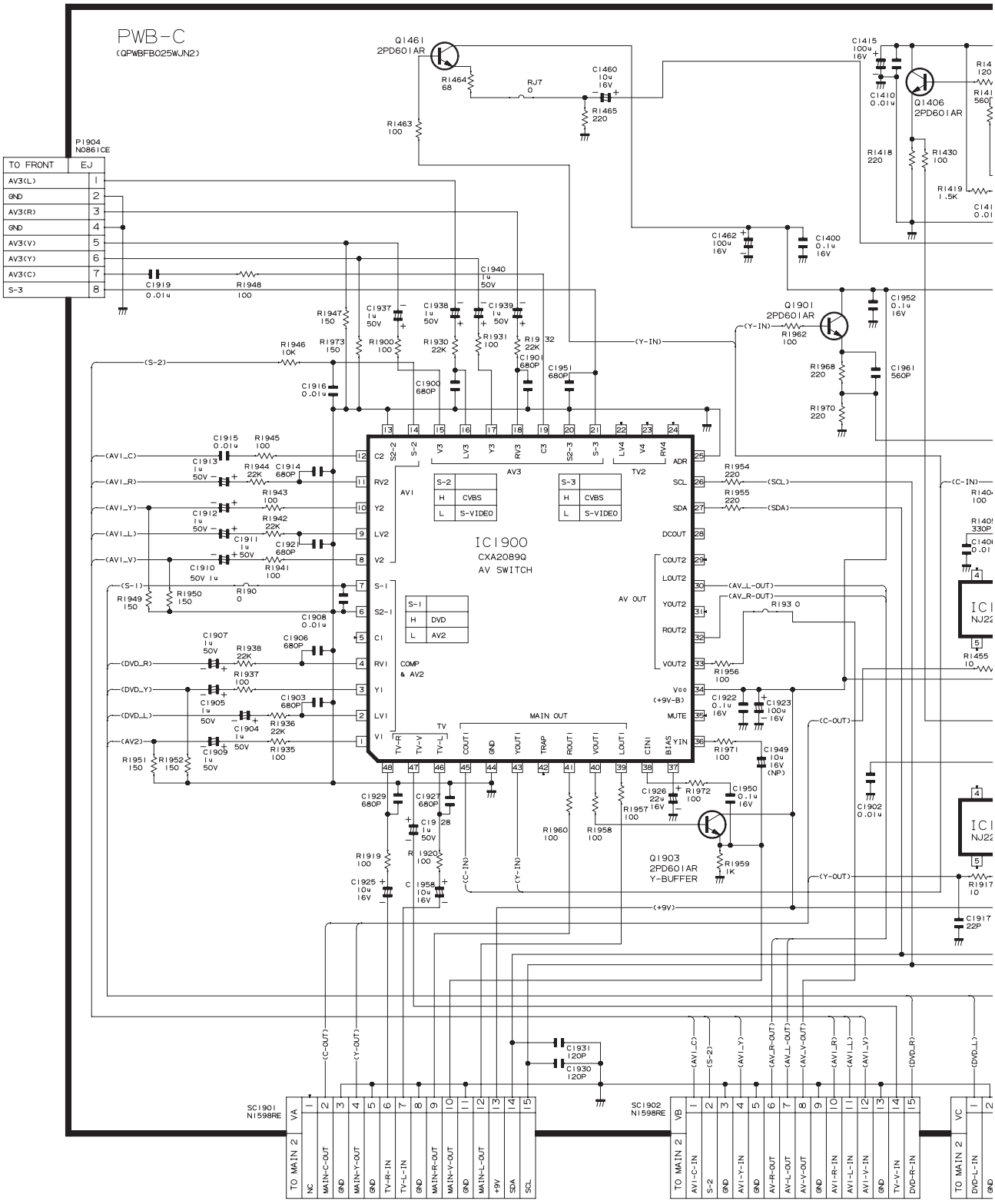
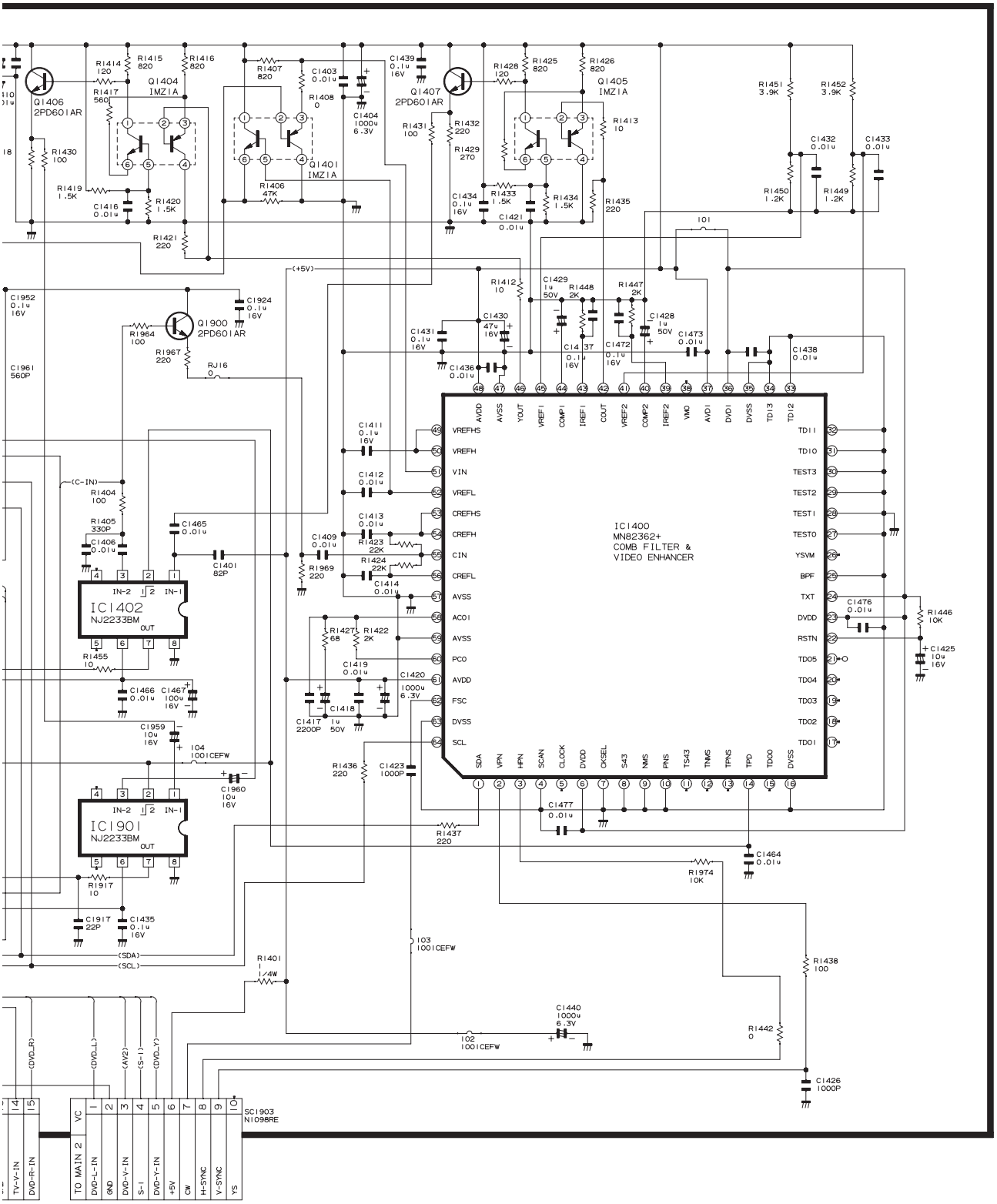
AV COMB UNIT (29WF200)



AND SHADED( ) COMPONENTS = SAFETY RELATED PARTS.
▲ MARK = X-RAY RELATED PARTS.

NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM).
2.ALL RESISTORS ARE 1/16 WATT.UNLESS OTHERWISE NOTED.
3.UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL (u, P, ETC).



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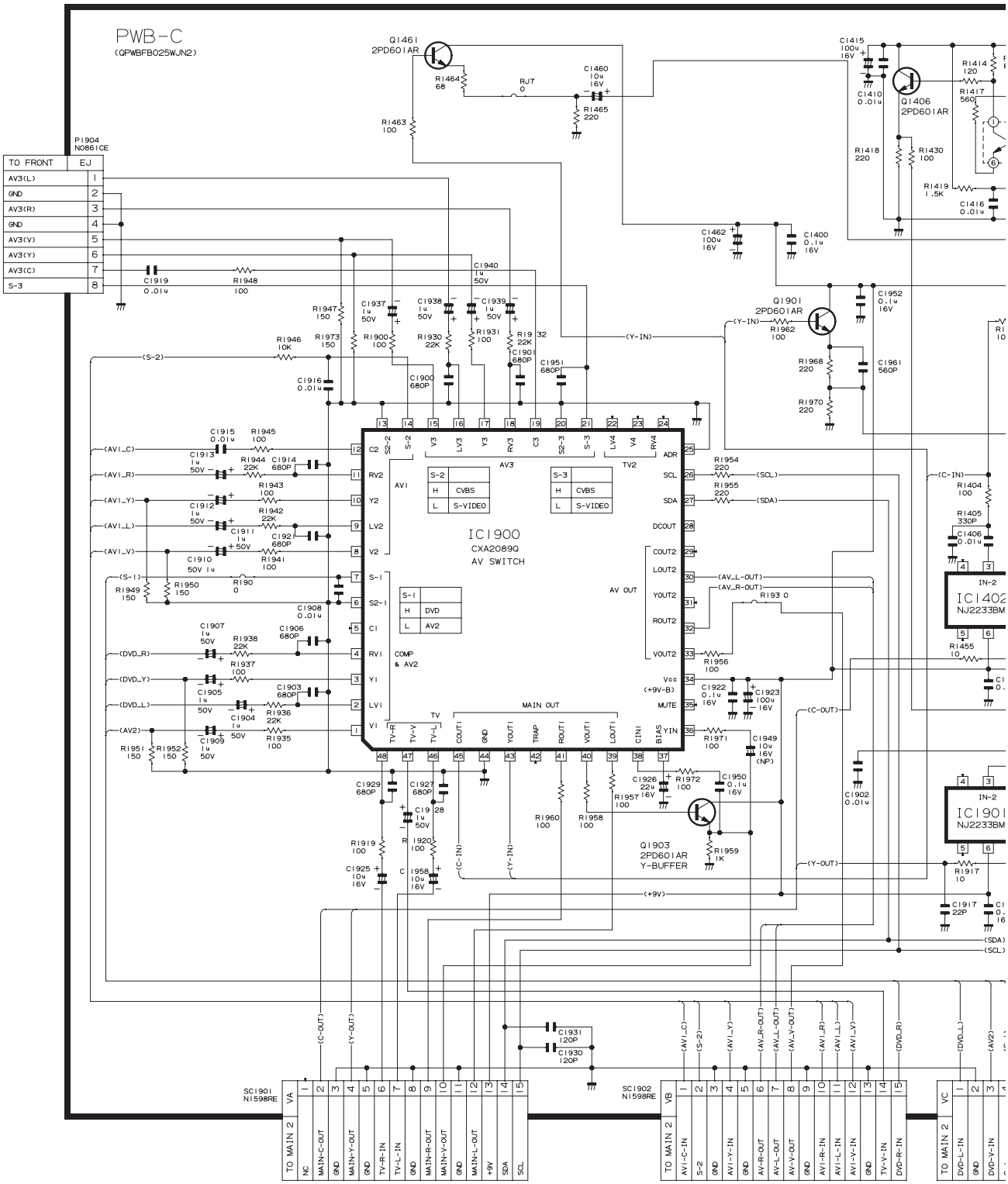
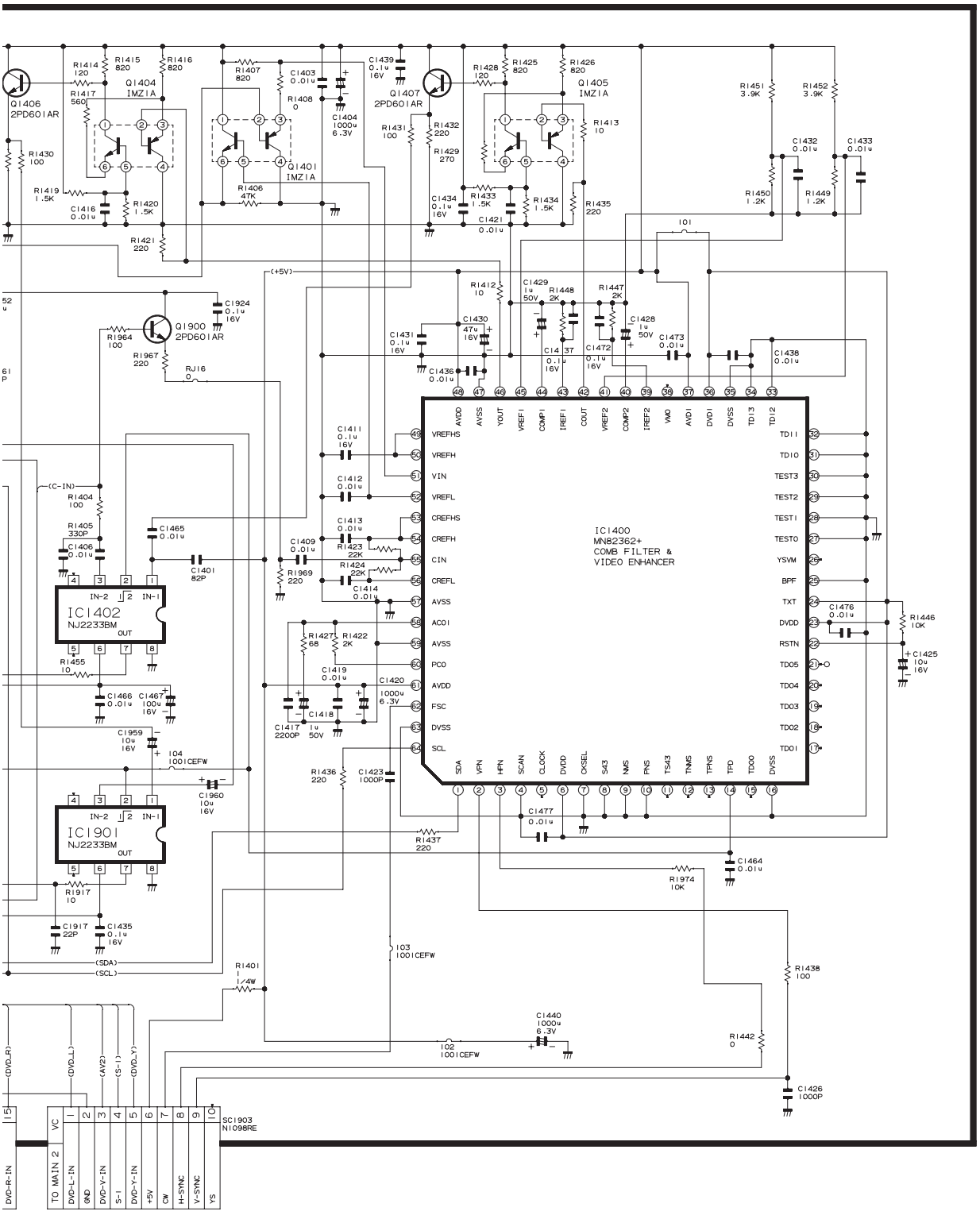
AV COMB UNIT (29WF500)



NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM).
2. ALL RESISTORS ARE 1/16 WATT. UNLESS OTHERWISE NOTED.
3. UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL (u, P, ETC).

⚠ AND SHADED( ) COMPONENTS = SAFETY RELATED PARTS.
▲ MARK = X-RAY RELATED PARTS.



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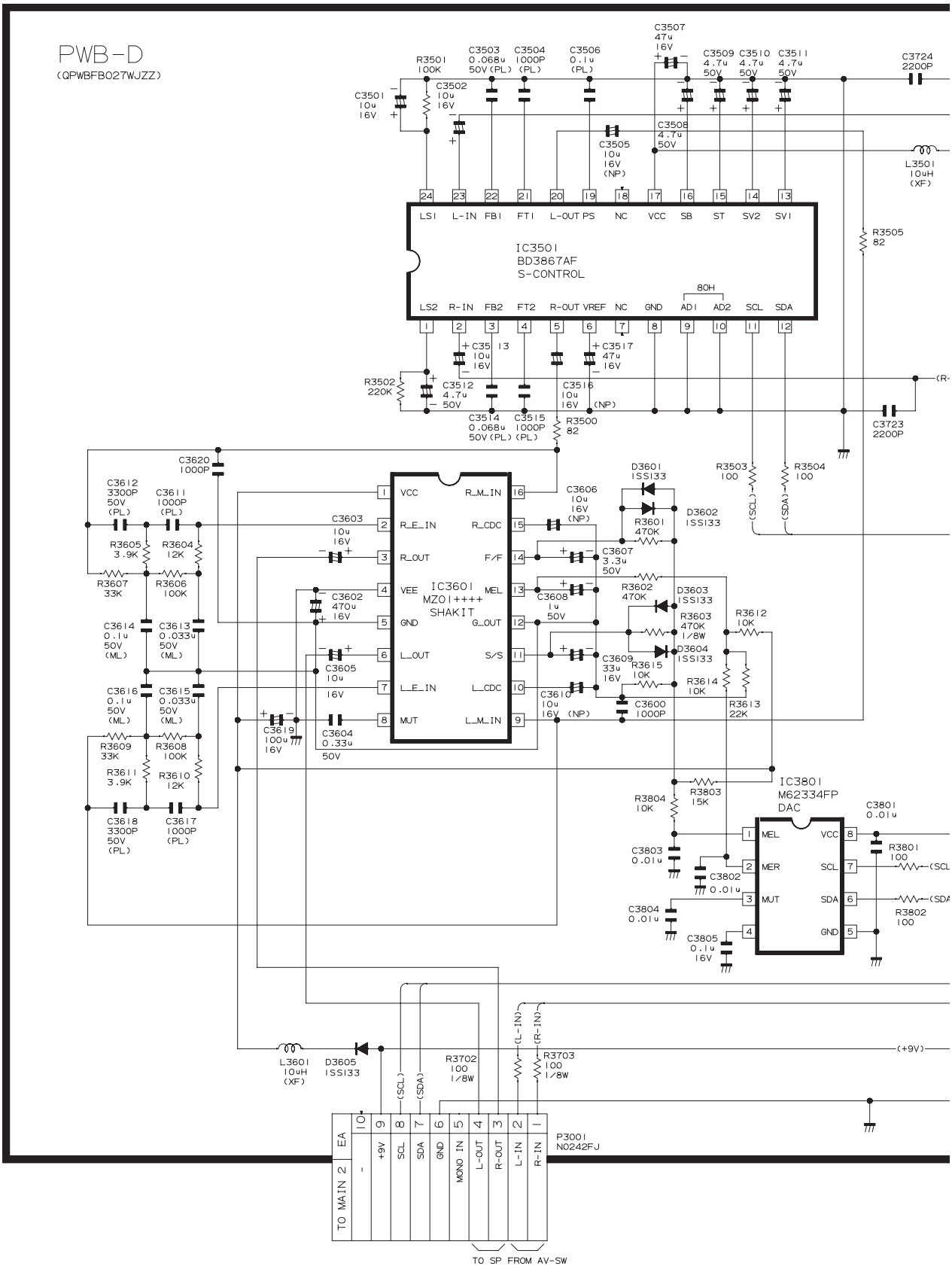
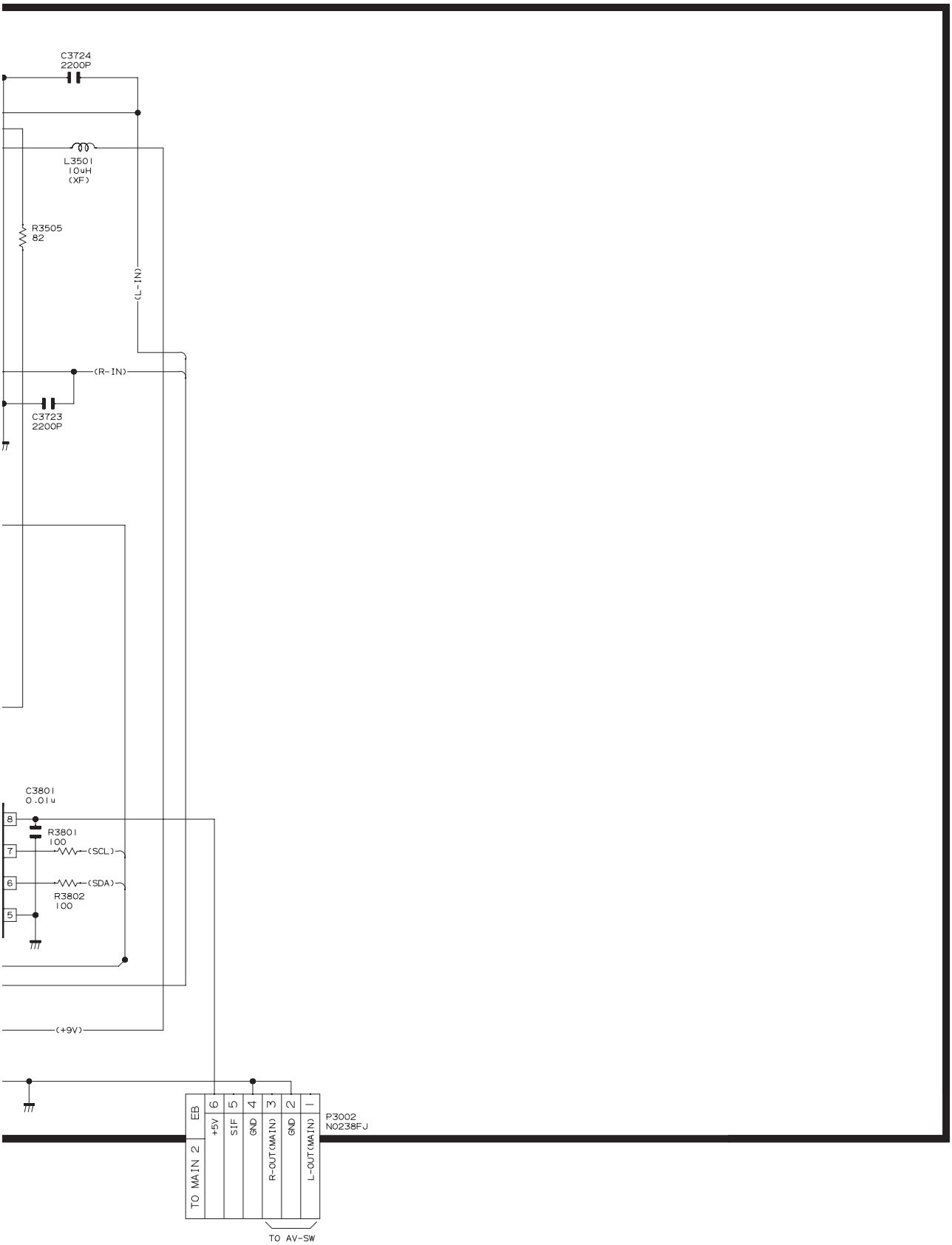
S-CONTROL UNIT (29WF200)

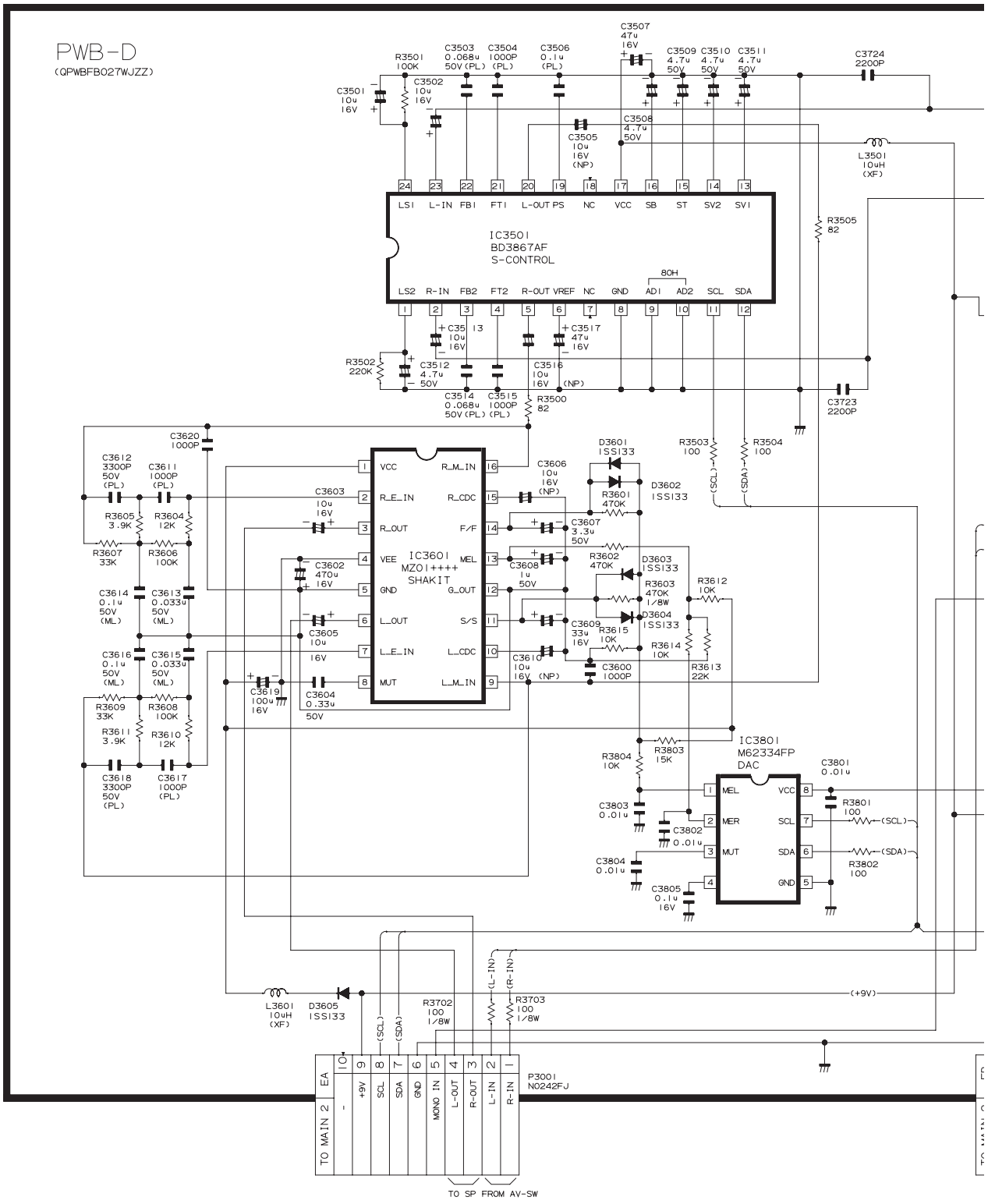


NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2.ALL RESISTORS ARE 1/16 WATT.UNLESS OTHERWISE NOTED.
3.UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).

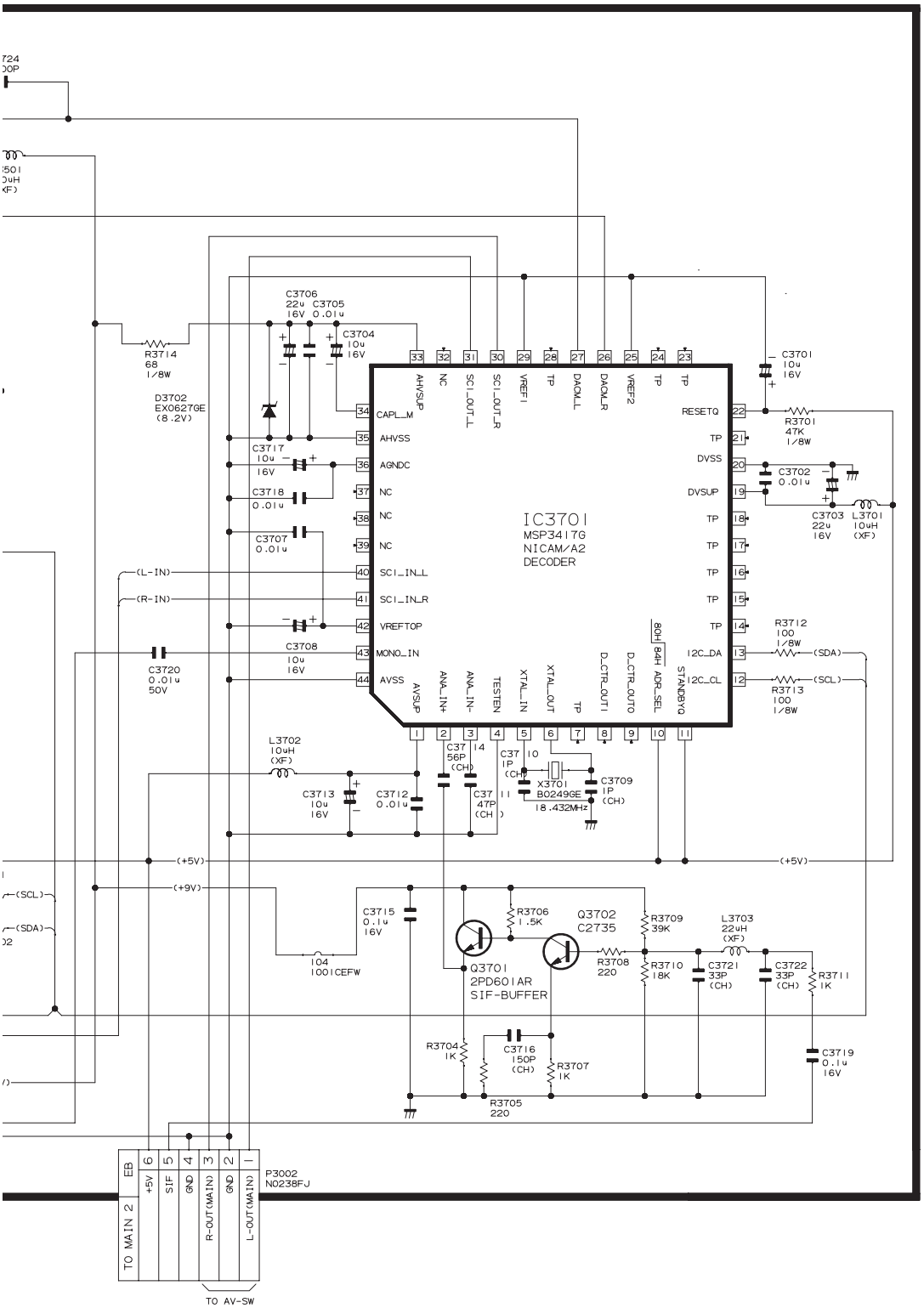


10	11	12	13	14	15	16	17	18	19

S-CONTROL UNIT (29WF500)



NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2.ALL RESISTORS ARE 1/16 WATT.UNLESS OTHERWISE NOTED.
3.UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).



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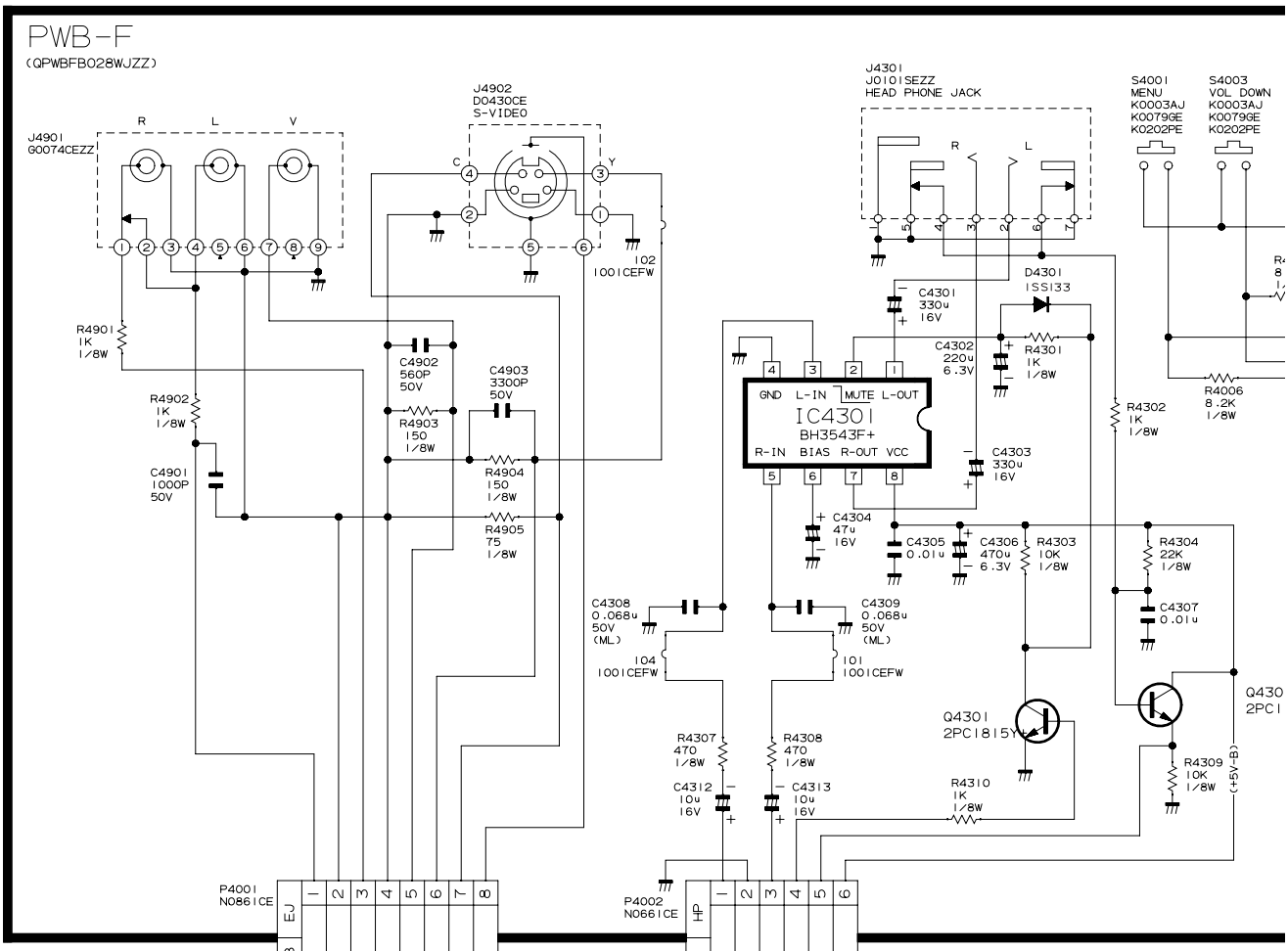
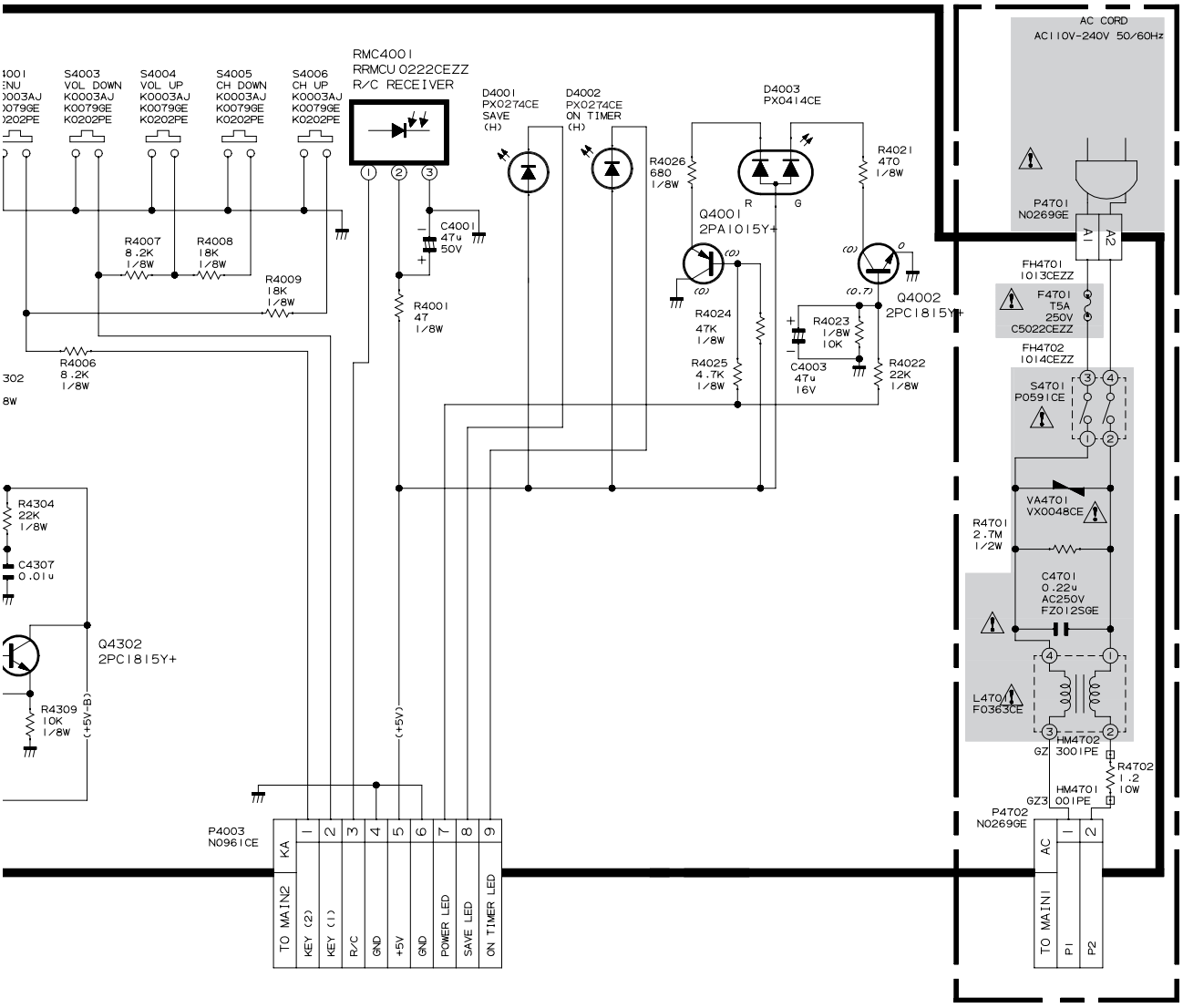
FRONT UNIT (29WF200)





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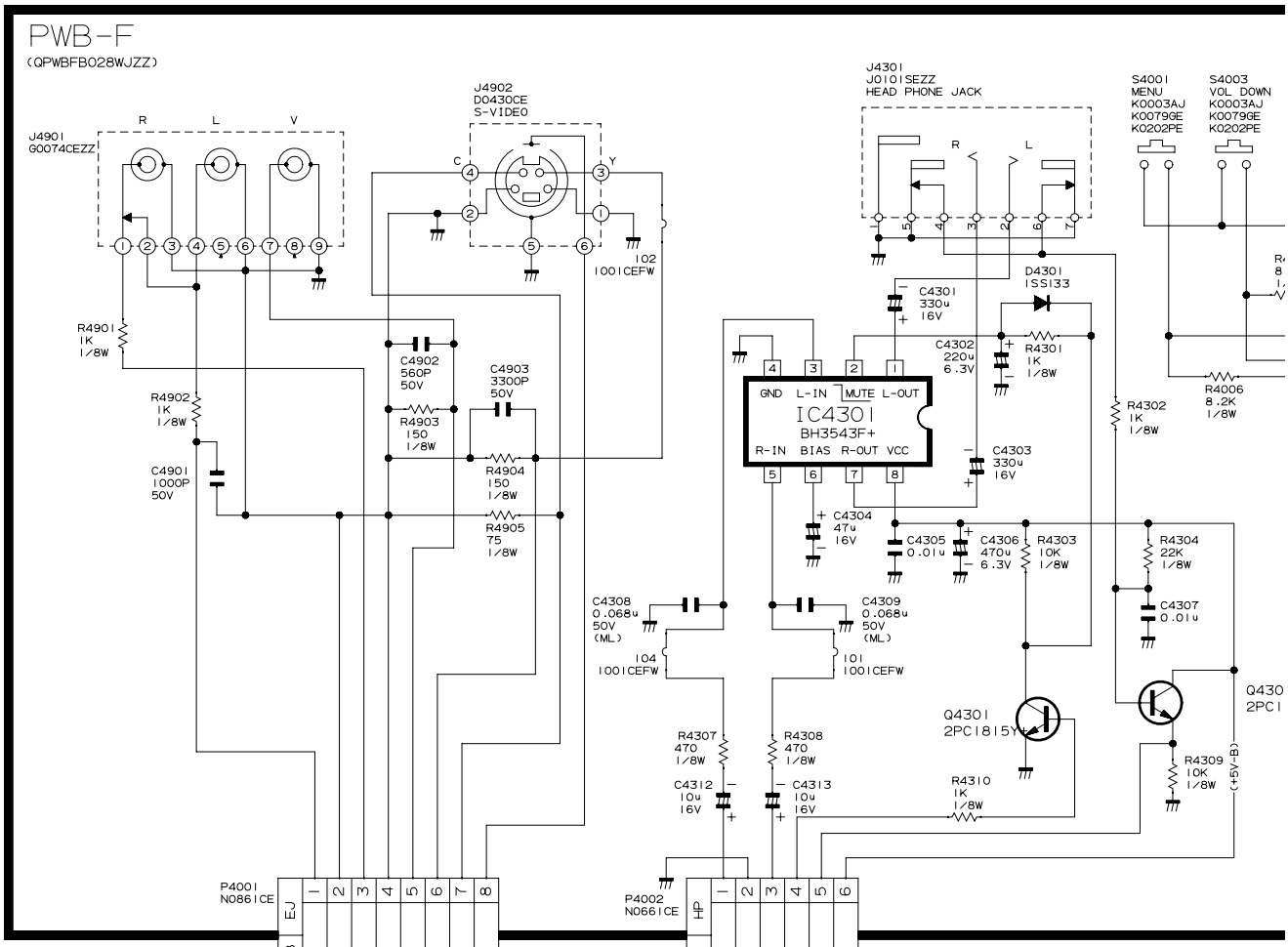
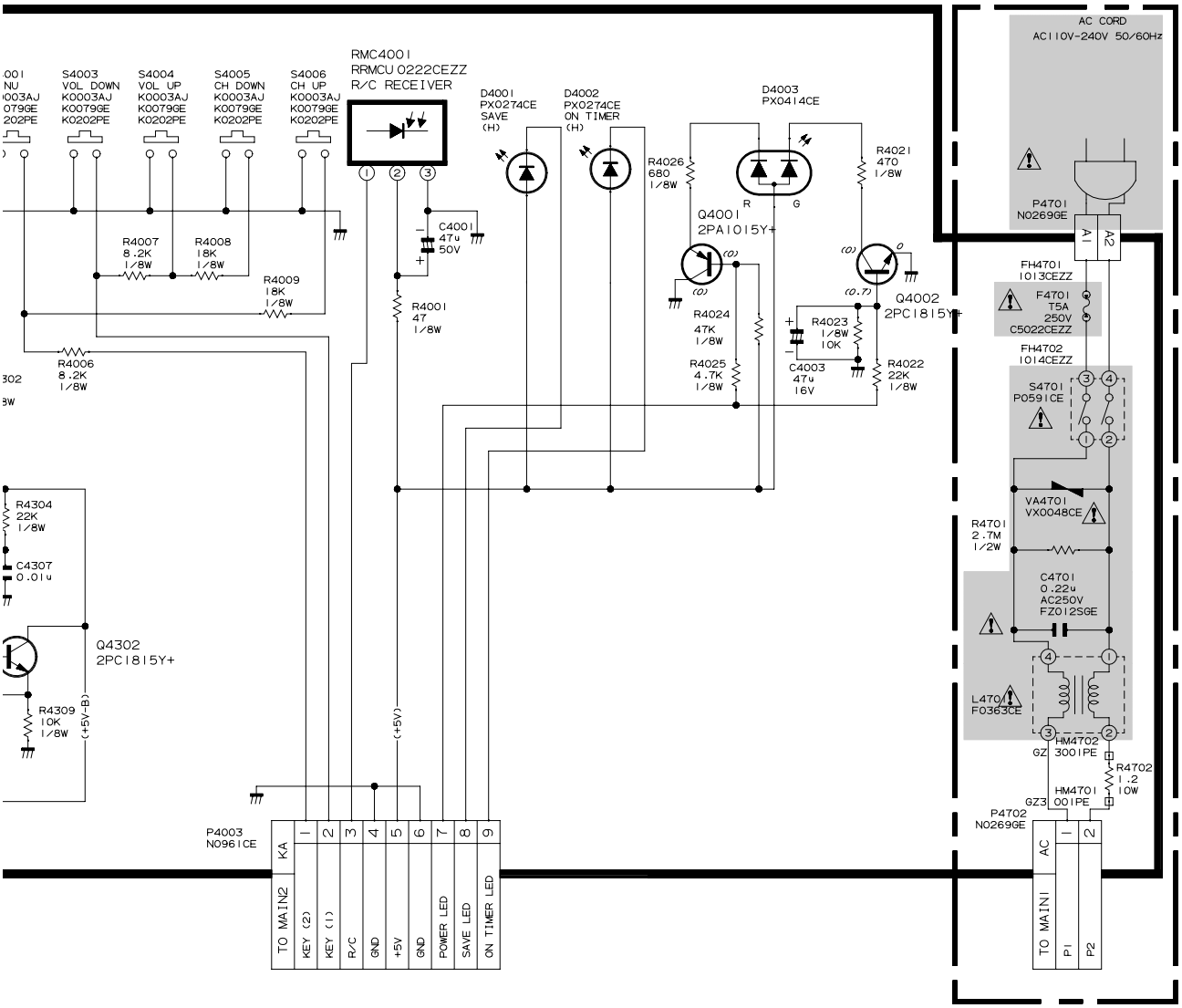
FRONT UNIT (29WF500)

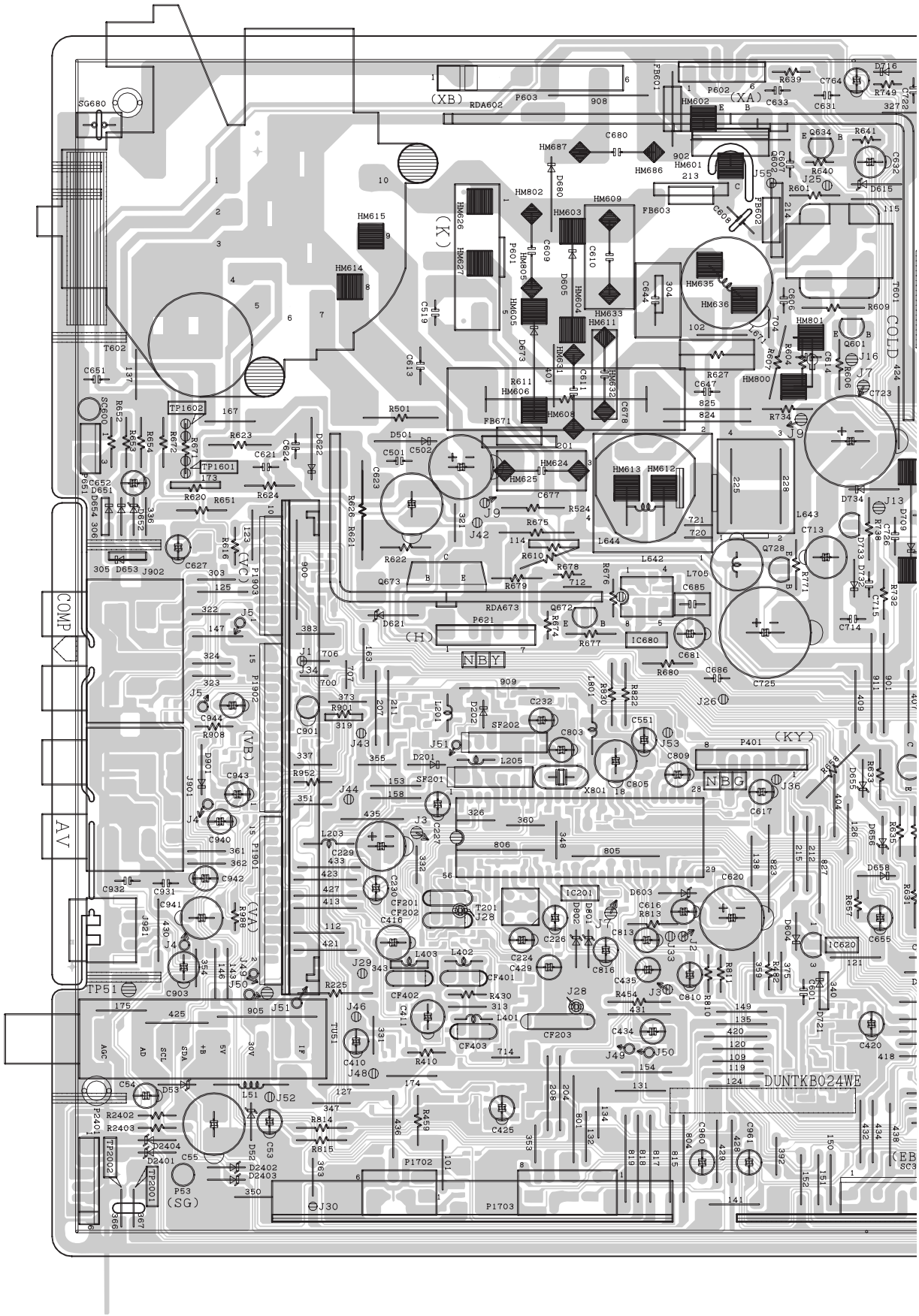


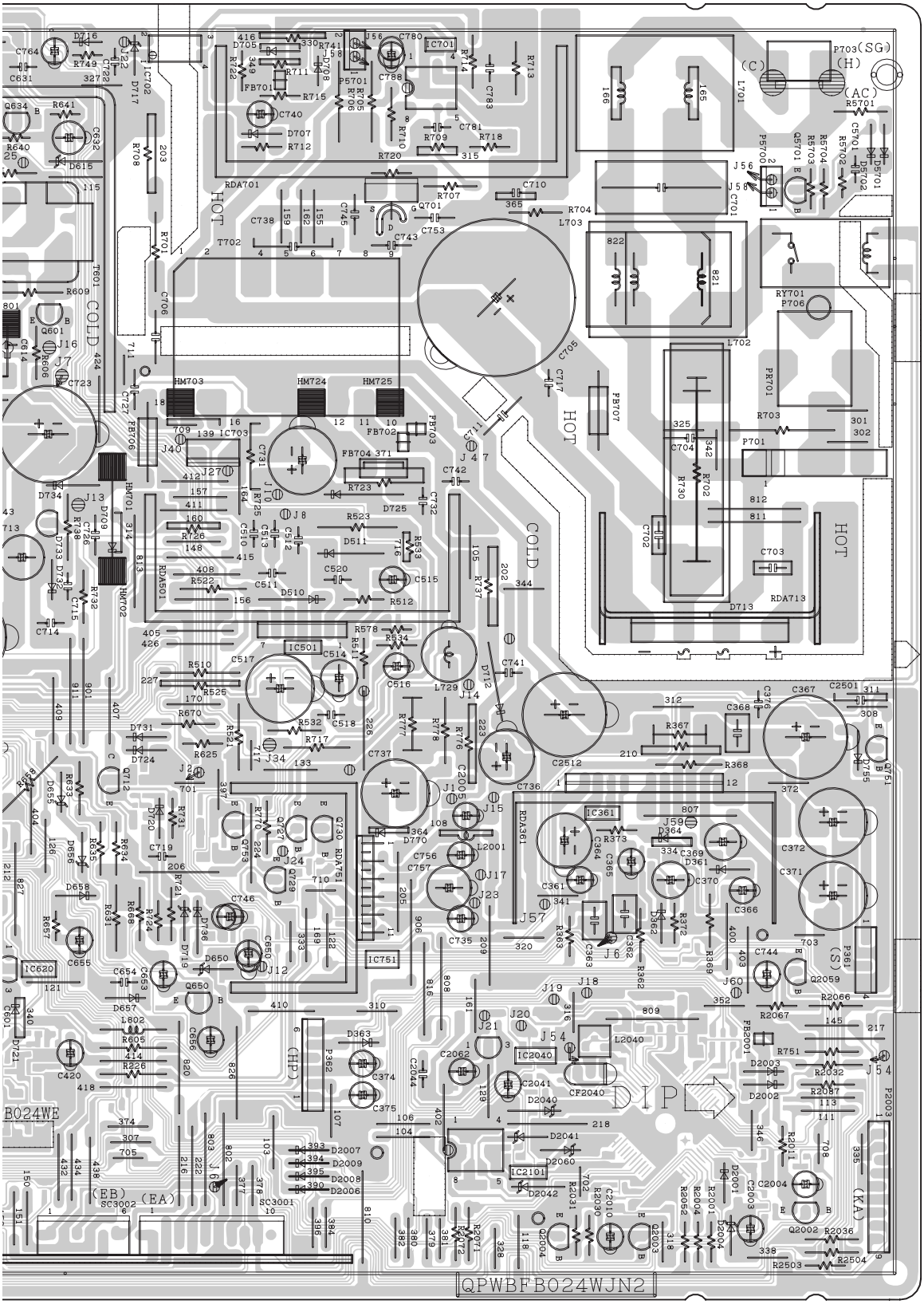


10	11	12	13	14	15	16	17	18	19

PRINTED WIRING BOARD ASSEMBLIES

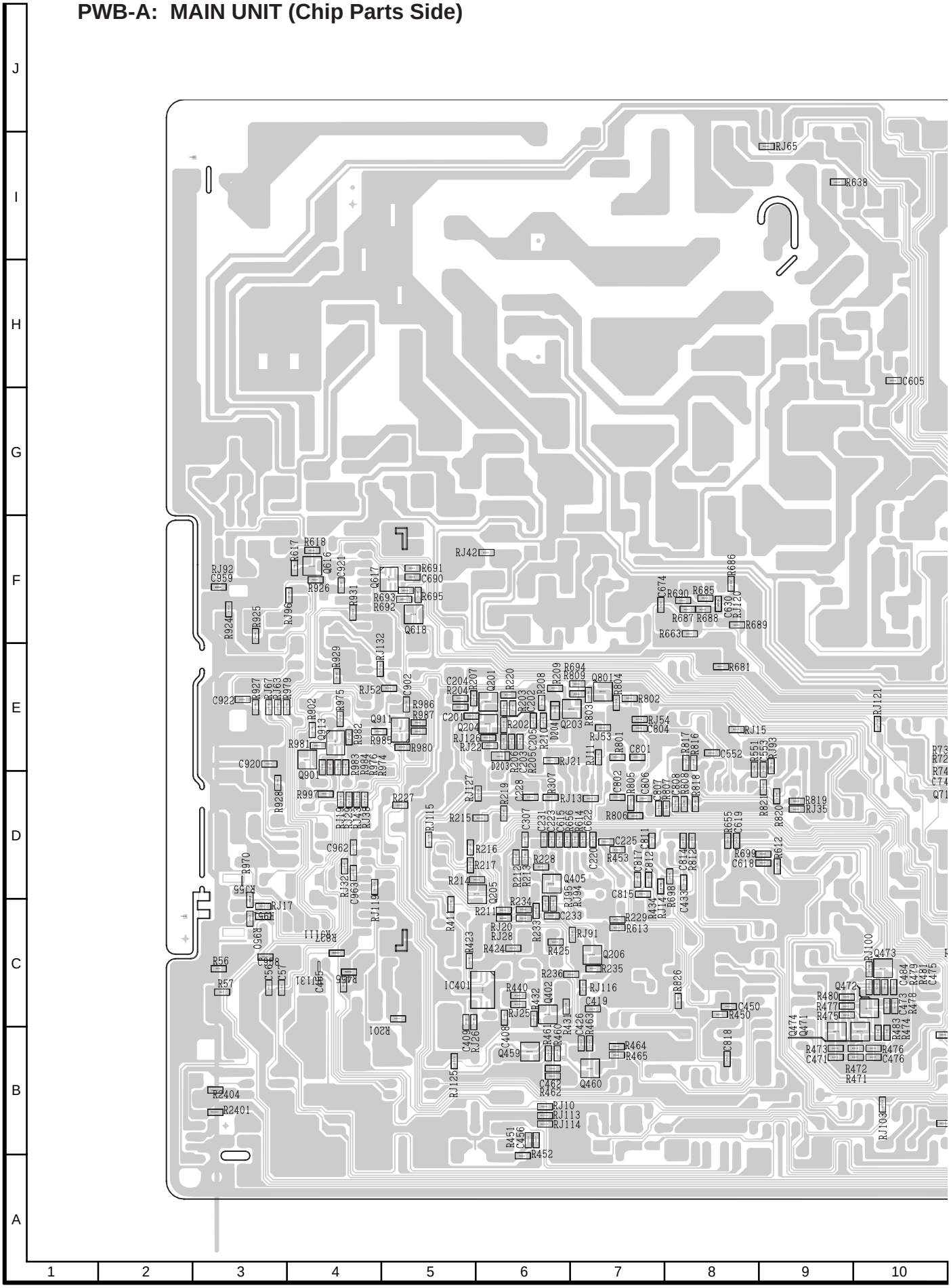
PWB-A: MAIN UNIT (Wiring Side)

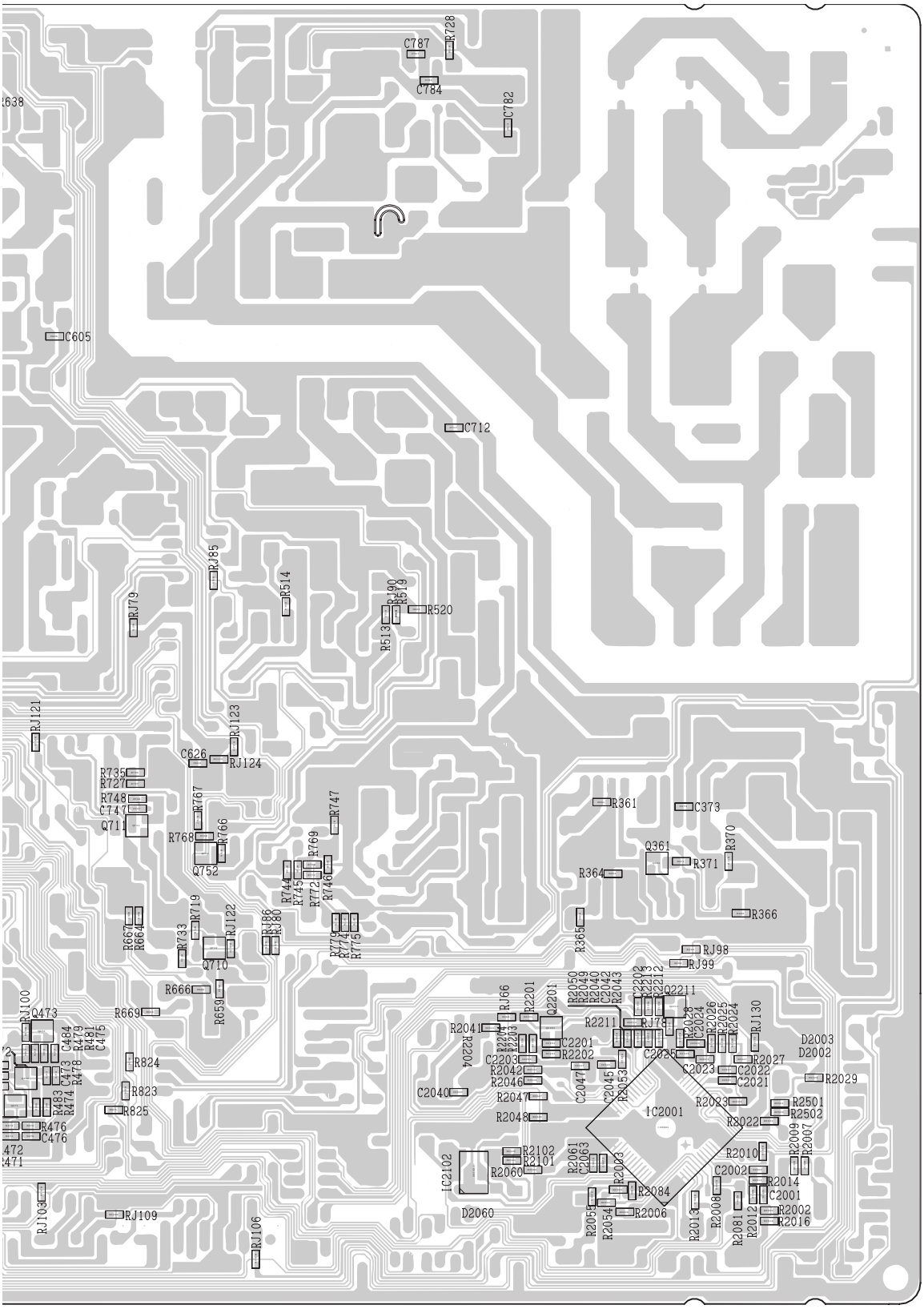




10	11	12	13	14	15	16	17	18	19

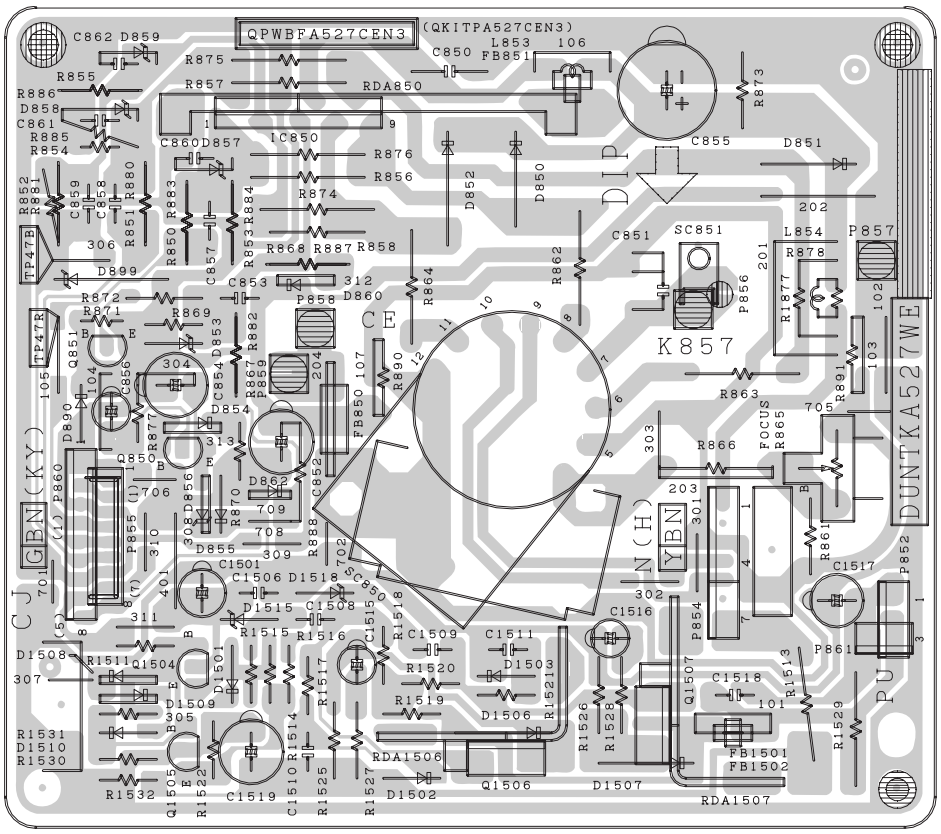
PWB-A: MAIN UNIT (Chip Parts Side)



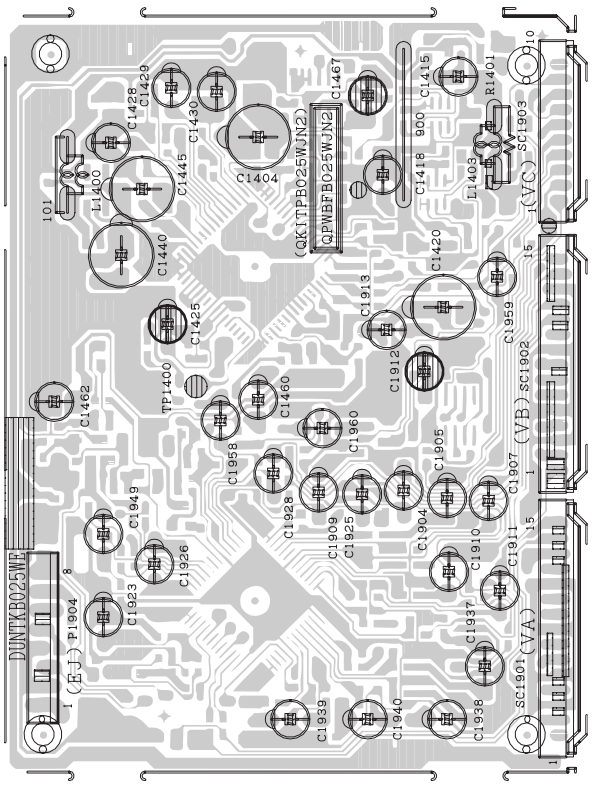


10	11	12	13	14	15	16	17	18	19

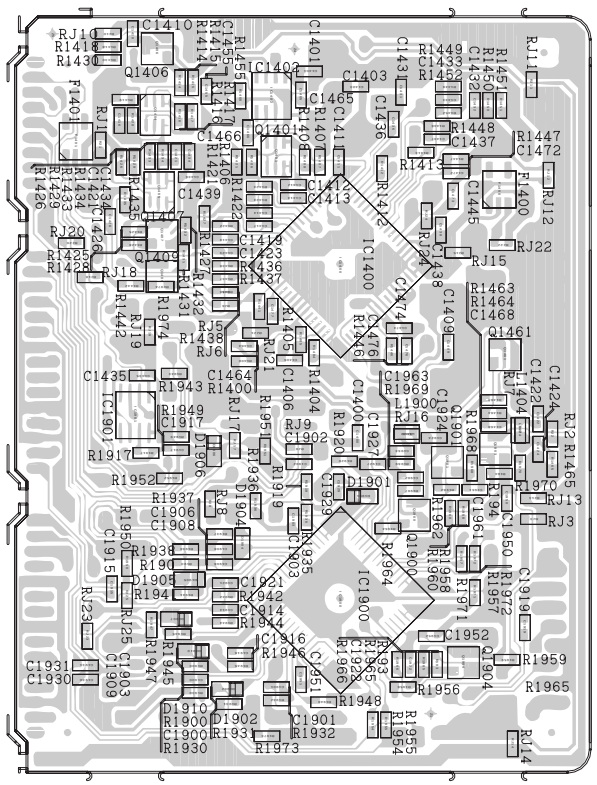
PWB-B: CRT UNIT



PWB-C: AV-COMB UNIT

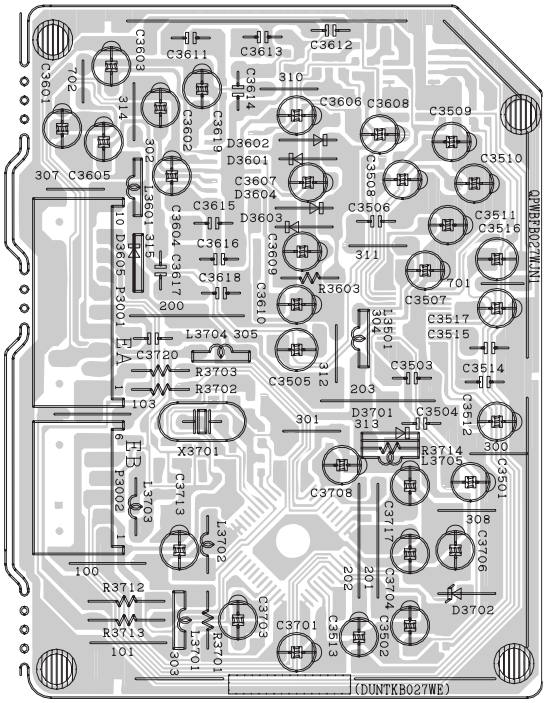


(Wiring Side)

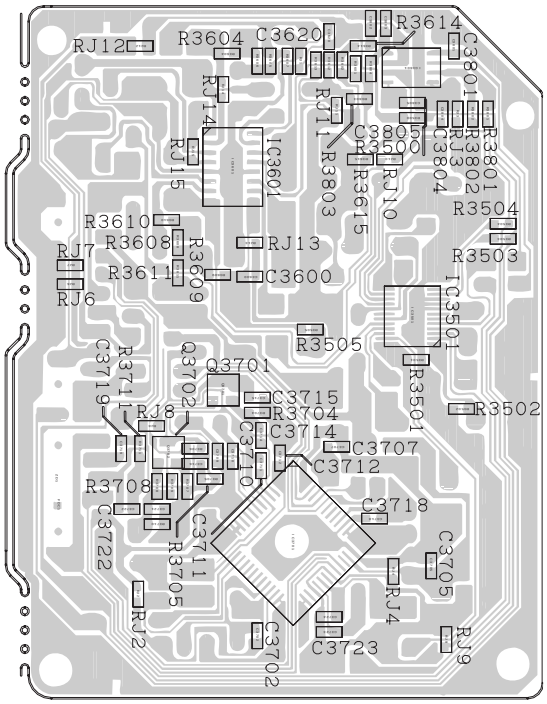


(Chip Parts Side)

PWB-D: S-CONTROL UNIT



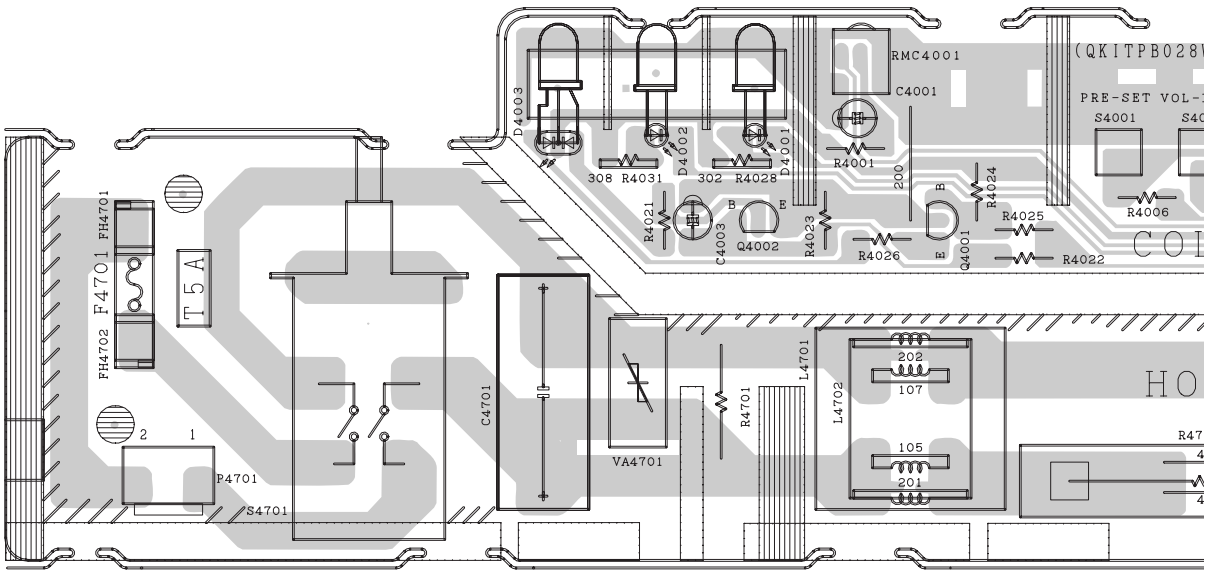
(Wiring Side)



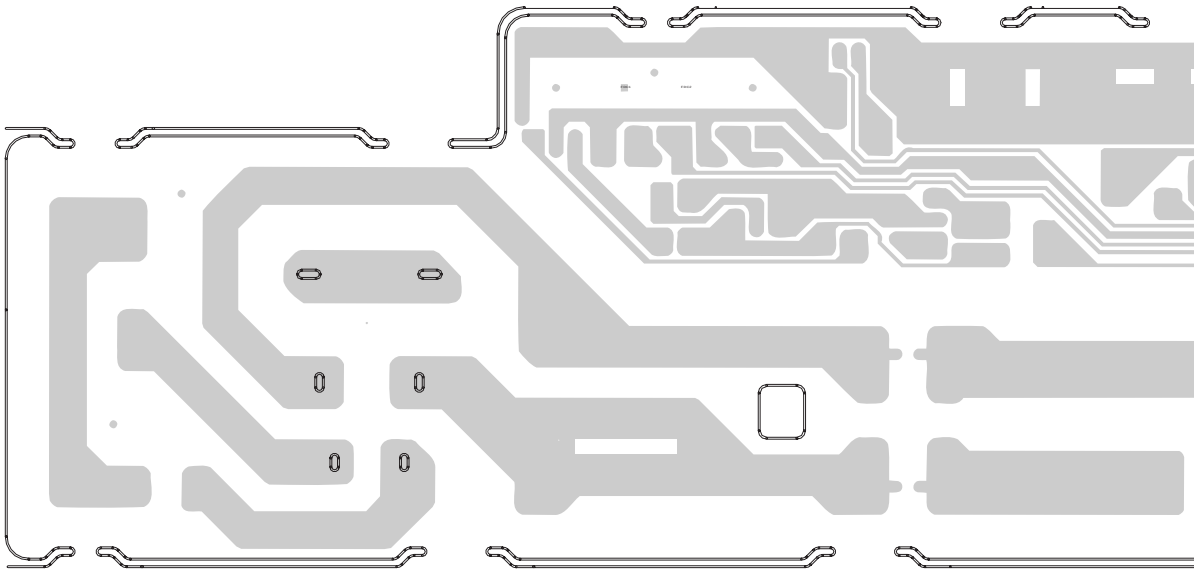
(Chip Parts Side)

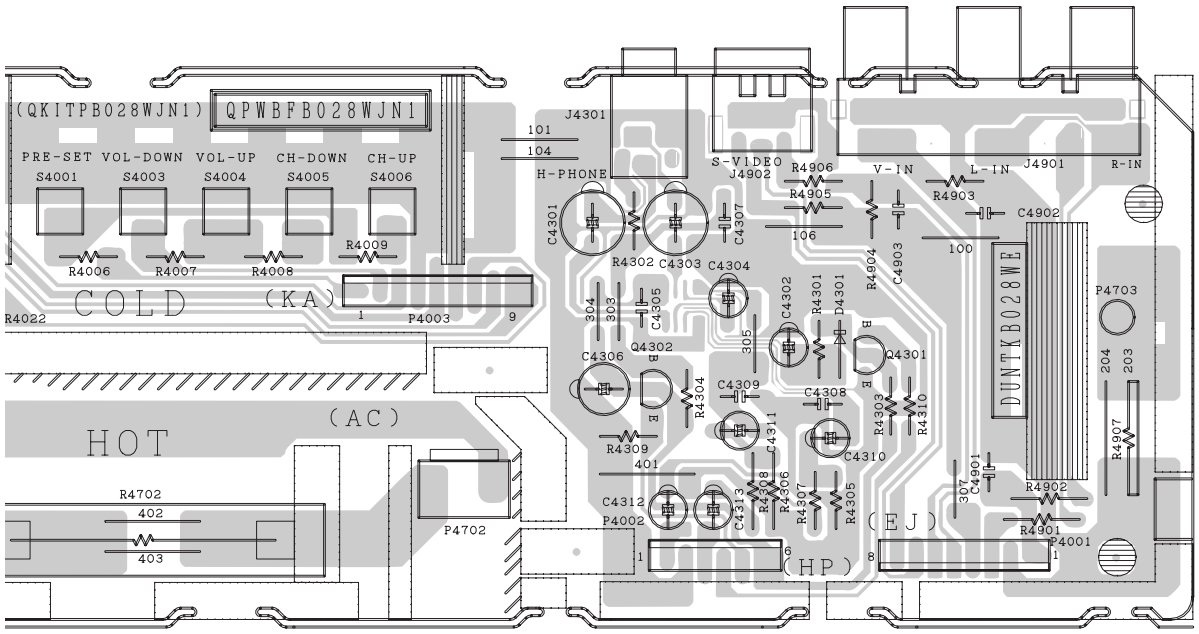
PWB-F: FRONT UNIT

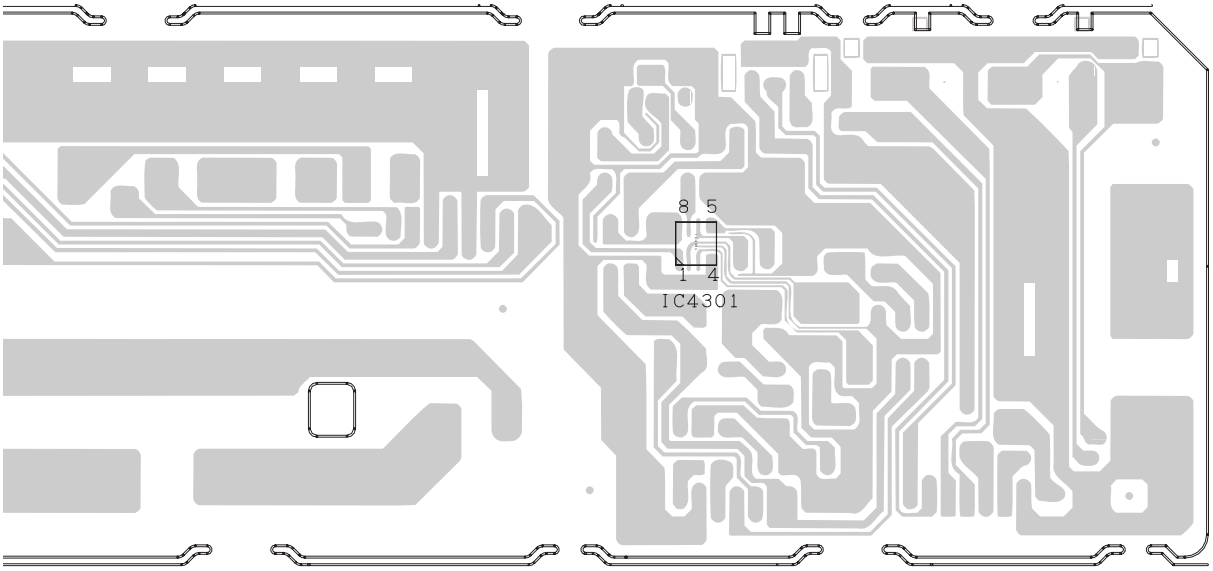
(Wiring Side)



(Chip Parts Side)







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REPLACEMENT PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" in the Replacement Parts Lists.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. **MODEL NUMBER**
2. **REF. NO.**
3. **PART NO.**
4. **DESCRIPTION**

MARK ★ : SPARE PARTS-DELIVERY SECTION.

Ref. No.	Part No.	★	Description	Code
PICTURE TUBE				
⚠ V101	VB68QCP899X3E	R	Picture Tube	CV
⚠ L703	RCiLG0056PEZZ	R	Degaussing Coil	AS
	QEARCA023WJZZ	R	Ground-Part	
	QEARP0023PEZZ	R	Ground-Part	AC
	PMAGF3087CEZZ	R	Magnet	AL
	PMAGG3002CEZZ	R	Magnet	AC
PRINTED WIRING BOARD ASSEMBLIES *(NOT REPLACEMENT ITEM)*				
PWB-A	DUNTKB024WED2	–	Main Unit(29WF200)	—
PWB-A	DUNTKB024WED4	–	Main Unit(29WF500)	—
PWB-B	DUNTKA527WED1	–	CRT Unit	—
PWB-C	DUNTKB025WEA6	–	AV Comb Unit	—
PWB-D	DUNTKB027WEA9	–	S-Control Unit(29WF200)	—
PWB-D	DUNTKB027WEB1	–	S-Control Unit(29WF500)	—
PWB-F	DUNTKB028WEA8	–	Front Unit	—

Ref. No.	Part No.	★	Description	Code
DUNTKB024WED2(29WF200) DUNTKB024WED4(29WF500) PWB-A MAIN UNIT				
TUNER				
	NOTE: THE PARTS HERES SHOWN ARE SUPPLIED AS AN ASSEMBLY NOT INDEPENDENTLY.			
⚠ TU51	RTUNQA010WJZZ	R	Tuner	AW
INTEGRATED CIRCUIT				
IC201	RH-iX3394CEN2	R	TB1251CN	AY
IC361	VHiAN5277//-1	R	AN5277	AN
IC401	VHiNJ2233BM-1Y	R	NJM2233BM(29WF500)	AE
IC501	VHiTA8427K/-1	R	TA8427K	AL
IC620	VHiKA78S09P-1+	R	KIA78S09P	AD
IC680	VHiKiA358P+-1	R	KIA358P	AD
⚠ IC701	VHiTEA1507/-1	R	TEA1507P/N1	AL
⚠ IC702	RH-FX0008GEZZ	R	PC123FY8	AE
⚠ IC703	VHiSE120N//-1	R	SE120N	AG
IC751	VHiSTV8164+-1	R	I.C.	AL
IC2001	RH-iX3593CEN2Q	R	I.C.	AU
IC2040	VHiKiA7045A-1+	R	KIA7045AP	AD
IC2101	VHiCAT24W08-1	R	I.C.	
TRANSISTORS				
Q201	VS2SC2735//1E*	R	2SC2735	AC
Q203	VSRT1N441C/-1*	R	RT1N441C(29WF500)	AB
Q204	VSRT1N441C/-1*	R	RT1N441C(29WF500)	AB
Q205	VS2PD601AR/-1*	R	2PD601AR(29WF200)	AB
Q206	VS2PD601AR/-1*	R	2PD601AR(29WF200)	AB
Q361	VS2PB709AR/-1*	R	2PB709AR	AB
Q402	VS2PB709AR/-1*	R	2PB709AR(29WF500)	AB
Q405	VS2PD601AR/-1*	R	2PD601AR	AB
Q471	VS2PD601AR/-1*	R	2PD601AR	AB
Q472	VS2PD601AR/-1*	R	2PD601AR	AB
Q473	VS2PD601AR/-1*	R	2PD601AR	AB
Q474	VS2PD601AR/-1*	R	2PD601AR	AB
Q601	VS2SC2482//-1+	R	2SC2482	AD
⚠ Q602	VS2SD2581++2E	R	2SD2581	AM
Q616	VS2PD601AR/-1*	R	2PD601AR	AB
Q617	VSiMX1C/C//-1Y	R	iMX1C	AC
Q618	VS2PD601AR/-1*	R	2PD601AR	AB
Q634	VS2PC1815Y+-1+	R	2PC1815Y	AC
Q650	VS2PA1015Y+-1+	R	2PA1015Y	AC
Q672	VS2PA1015Y+-1+	R	2PA1015Y	AC
Q673	VS2SD2045//-1	R	2SD2045	AL
⚠ Q701	VSST10NK80F-1	R	ST10NK80F	
Q710	VS2PB709AR/-1*	R	2PB709AR	AB
Q711	VS2PB709AR/-1*	R	2PB709AR	AB
Q712	VSBC517++++-1+	R	BC517	AD
Q727	VS2SC3333//-1+	R	2SC3333	AD
Q728	VS2SA1091-O1A+	R	2SA1091-O	AF
Q729	VS2PA1015Y+-1+	R	2PA1015Y	AC
Q730	VS2PC1815Y+-1+	R	2PC1815Y	AC
Q751	VS2PC1815Y+-1+	R	2PC1815Y	AC
Q801	VS2PD601AR/-1*	R	2PD601AR	AB
Q901	VS2PB709AR/-1*	R	2PB709AR	AB
Q911	VSiMX1C/C//-1Y	R	iMX1C	AC
Q913	VSiMX1C/C//-1Y	R	iMX1C	AC
Q2002	VS2PA1015Y+-1+	R	2PA1015Y	AC
Q2003	VS2PA1015Y+-1+	R	2PA1015Y	AC
Q2004	VS2PC1815Y+-1+	R	2PC1815Y	AC
Q2059	VS2PC1815Y+-1+	R	2PC1815Y	AC
Q2201	VS2PD601AR/-1*	R	2PD601AR	AB
Q2211	VS2PD601AR/-1*	R	2PD601AR	AB
Q5701	VS2PA1015Y+-1+	R	2PA1015Y	AC
DIODES				
D52	RH-EX0676GEZZ*	R	Zener Diode, 32V	AA
D203	VHD1SS390++-1*	R	1SS390(29WF500)	AB
D204	VHD1SS390++-1*	R	1SS390	AB
D361	VHD1SS133++-1*	R	1SS133	
D362	VHD1SS133++-1*	R	1SS133	
D363	VHD1SS133++-1*	R	1SS133	
D501	RH-DX0302CEZZ*	R	DX0302CE	AC

Ref. No.	Part No.	★	Description	Code
D510	RH-DX0441CEZZ*	R	DX0441CE	AC
D511	RH-EX0654CEZZ*	R	Zener Diode, 75V	AD
D604	VHD1SS133++-1*	R	1SS133	
D605	RH-DX0255CEZZ	R	DX0255CE	AC
D615	RH-EX0665GEZZ*	R	Zener Diode, 25V	AA
D621	RH-EX0631GEZZ*	R	Zener Diode, 9.1V	AA
D622	RH-DX0131CEZZ*	R	DX0131CE	AC
D650	RH-EX0628GEZZ*	R	Zener Diode, 8.2V	AC
⚠ D651	VHD1SS244//-1*	R	1SS244	AB
⚠ D652	RH-EX0641GEZZ*	R	Zener Diode, 12V	AA
D653	VHD1SS133++-1*	R	1SS133	
D657	VHD1SS133++-1*	R	1SS133	
D673	RH-DX0229CEZZ	R	DX0229CE	AF
D708	VHD1SS133++-1*	R	1SS133	
D709	RH-DX0229CEZZ	R	DX0229CE	AF
D712	RH-DX0468CEZZ	R	DX0468CE	AE
⚠ D713	RH-DX0336CEZZ	R	DX0336CE	AH
D716	VHD1SS133++-1*	R	1SS133	
D717	RH-EX0650GEZZ*	R	Zener Diode, 16V	AB
D719	RH-EX0621GEZZ*	R	Zener Diode, 6.8V	AB
D720	VHD1SS133++-1*	R	1SS133	
D724	VHD1SS133++-1*	R	1SS133	
D725	RH-DX0407CEZZ*	R	DX0407CE	AD
D731	VHD1SS133++-1*	R	1SS133	
D732	VHD1SS133++-1*	R	1SS133	
D733	VHSBT149G++-1+	R	SI.Control Rectifier	AD
D734	RH-DX0302CEZZ*	R	DX0302CE	AC
D755	VHD1SS133++-1*	R	1SS133	
D801	RH-EX0631GEZZ*	R	Zener Diode, 9.1V	AA
D802	RH-EX0631GEZZ*	R	Zener Diode, 0.0475V	AA
D901	VHD1SS133++-1*	R	1SS133	
D2004	RH-EX0619GEZZ*	R	Zener Diode, 6.2V	AA
D2041	RH-EX0614GEZZY	R	Zener Diode, 5.6V	AB
D2042	RH-EX0614GEZZY	R	Zener Diode, 5.6V	AB
D5701	VHD1SS133++-1*	R	1SS133	
D5702	VHD1SS133++-1*	R	1SS133	
PACKAGED CIRCUITS				
PR701	RMPTP0085CEZZ	R	Packaged Circuit	AL
X801	RCRSAA011WJZZ	R	Crystal	AE
COILS				
L51	VP-CF270K0000*	R	Peaking, 27µH	AB
L201	VP-XF1R2K0000*	R	Peaking, 1.2µH	AB
L203	VP-DF100K0000*	R	Peaking, 10µH	AB
L401	VP-XF100K0000*	R	Peaking, 10µH(29WF500)	AB
L402	VP-XF6R8K0000Y	R	Peaking, 6.8µH(29WF500)	AB
L402	VP-XF120K0000Y	R	Peaking, 12µH(29WF200)	AB
L403	VP-XF150K0000*	R	Peaking, 15µH(29WF500)	AB
L642	RCiLZ1034CEZZ	R	Coil	AM
L643	RCiLZ0982CEZZ	R	Coil	AK
L671	RCiLZ1005CEZZ	R	Coil	AH
⚠ L702	RCiLFA063WJZZ	R	Coil	
L705	RCiLP0179CEZZ+	R	Coil	AD
L729	RCiLP0179CEZZ+	R	Coil	AD
L801	VP-DF100K0000*	R	Peaking, 10µH	AB
L802	VP-DF6R8K0000Y	R	Peaking, 6.8µH	AB
L2040	RCiLBA002WJZZ	R	Oscillation Coil	AQ
FILTERS				
CF202	RFiLC0270CEZZ	R	Filter(29WF200)	AD
CF401	RFiLC0020CEZZ	R	Filter(29WF200)	AE
CF401	RFiLC0318CEZZ	R	Filter(29WF500)	AG
CF402	RFiLC0465CEZZ	R	Filter(29WF500)	AD
CF403	RFiLC0446CEZZ	R	Filter(29WF500)	AD
CF2040	RFiLA0099CEZZ	R	Filter	AE
SF201	RFiLC0444CEZZ	R	Filter	AN
SF202	RFiLC0445CEZZ	R	Filter	AM
TRANSFORMERS				
T201	RCiLDA002WJZZ	R	Detection Coil	AF
⚠ T601	RTRNZ0057PEZZ	R	Transformer	AK
⚠ T602	RTRNFA001WJZZ	R	H-Volt Transformer	BA
⚠ T702	RTRNW0006GJZZ	R	Transformer	AP

Ref. No.	Part No.	★	Description	Code
CAPACITORS				
C53	VCEA0A1HW105M+	R	1 50V Electrolytic	AB
C54	VCEA0A1HW475M+	R	4.7 50V Electrolytic	AB
C55	VCEA0A0JW338M	R	3300 6.3V Electrolytic	AD
C201	VCKYCY1HB102K*	R	1000p 50V Ceramic	AA
C202	VCKYCY1HB103K*	R	0.01 50V Ceramic	AA
C203	VCKYCY1HB102K*	R	1000p 50V Ceramic	AA
C204	VCKYCY1HB103K*	R	0.01 50V Ceramic	AA
C205	VCKYCY1HB102K*	R	1000p 50V Ceramic	AA
C220	VCKYCY1EB183KY	R	0.018 25V Ceramic	AA
C223	VCKYCY1CF104Z*	R	0.1 16V Ceramic	AA
C224	VCEA0A1HW475M+	R	4.7 50V Electrolytic	AB
C225	VCKYCY1HB102K*	R	1000p 50V Ceramic	AA
C226	VCEA0A1HW224M+	R	0.22 50V Electrolytic	AB
C227	VCEA0A1CW226M+	R	22 16V Electrolytic	AB
C228	VCKYCY1CF104Z*	R	0.1 16V Ceramic	AA
C229	VCEA0A0JW228M	R	2200 6.3V Electrolytic	AD
C230	VCEA0A1HW225M+	R	2.2 50V Electrolytic	AB
C231	VCKYCY1CF104Z*	R	0.1 16V Ceramic	AA
C232	VCEA0A1HW474M+	R	0.47 50V Electrolytic	AB
C233	VCKYCY1CF104Z*	R	0.1 16V Ceramic (29WF200)	AA
C361	VCQYTA1HM104J+	R	0.1 50V Mylar	AB
C362	VCQYTA1HM333K+	R	0.033 50V Mylar	AB
C363	VCQYTA1HM333K+	R	0.033 50V Mylar	AB
C364	VCEA0A1VW227M+	R	220 35V Electrolytic	AC
C365	VCQYTA1HM104J+	R	0.1 50V Mylar	AB
C366	VCEA0A1CW106M+	R	10 16V Electrolytic	AB
C367	VCEA0H1VW228M	R	2200 35V Electrolytic	AH
C368	VCKYPA1HF103Z+	R	0.01 50V Ceramic	AA
C369	VCEA0A1CW227M+	R	220 16V Electrolytic	AC
C370	VCEA0A1CW227M+	R	220 16V Electrolytic	AC
C371	VCEA0A1EW228M	R	2200 25V Electrolytic	AF
C372	VCEA0A1EW228M	R	2200 25V Electrolytic	AF
C373	VCKYCY1CF104Z*	R	0.1 16V Ceramic	AA
C374	VCEA0A1CW226M+	R	22 16V Electrolytic	AB
C375	VCEA0A1CW226M+	R	22 16V Electrolytic	AB
C376	VCQYTA1HM104J+	R	0.1 50V Mylar	AB
C408	VCCCCY1HH220J*	R	22p 50V Ceramic (29WF500)	AA
C409	VCKYCY1HF103Z*	R	0.01 50V Ceramic (29WF500)	AA
C410	VCEA0A1CW107M+	R	100 16V Electrolytic (29WF500)	AC
C411	VCEA0A1CW227M+	R	220 16V Electrolytic (29WF500)	AC
C416	VCEA0A1CW227M+	R	220 16V Electrolytic (29WF500)	AC
C419	VCKYCY1CF224Z*	R	0.22 16V Ceramic	AB
C420	VCEA0A1CW476M+	R	47 16V Electrolytic	AB
C429	VCQYTA1HM103J+	R	0.01 50V Mylar (29WF500)	AB
C433	VCKYCY1HB103K*	R	0.01 50V Ceramic	AA
C434	VCE9GA1HW105M+	R	1 50V Electrolytic	AB
C435	VCQYTA1HM104J+	R	0.1 50V Mylar	AB
C450	VCKYCY1HB221K*	R	220p 50V Ceramic	AA
C471	VCKYCY1HB822K*	R	8200p 50V Ceramic	AB
C473	VCCCCY1HH561J*	R	560p 50V Ceramic	AB
C475	VCKYCY1CF104Z*	R	0.1 16V Ceramic	AA
C476	VCKYCY1HB103K*	R	0.01 50V Ceramic	AA
C484	VCKYCY1HB103K*	R	0.01 50V Ceramic	AA
C501	VCKYPA2HB102K+	R	1000p 500V Ceramic	AA
C502	VCEA0A1VW108M	R	1000 35V Electrolytic	AD
C510	VCFYFA1HA564J+	R	0.56 50V Polyester Film	AB
C511	VCKYPA2HB681K+	R	680p 500V Ceramic	AB
C512	VCQYTA1HM683J+	R	0.068 50V Mylar	AB
C513	VCQYTA1HM103J+	R	0.01 50V Mylar	AB
C514	VCEA0A1VW107M+	R	100 35V Electrolytic	AC
C515	VCEACA1HC225J+	R	2.2 50V Electrolytic	AC
C516	VCEACA1HC225J+	R	2.2 50V Electrolytic	AC
C517	VCEA0A1VW108M	R	1000 35V Electrolytic	AD
C518	VCQYTA1HM273J+	R	0.027 50V Mylar	AB
C519	VCFYSA1JB473J+	R	0.047 63V	AC
C551	VCEACA1HC474K+	R	0.47 50V Electrolytic	AC
C552	VCKYCY1HB392K*	R	3900p 50V Ceramic	AA
C553	VCKYCY1HB392K*	R	3900p 50V Ceramic	AA

Ref. No.	Part No.	★	Description	Code
C601	VCFYFA1HA334J+	R	0.33 50V Polyester Film	AB
C605	VCKYCY1HB102K*	R	1000p 50V Ceramic	AA
C606	VCKYPA2HB561K+	R	560p 500V Ceramic	AA
C607	VCKYPA1HB472K+	R	4700p 50V Ceramic	AB
C608	RC-KZ0033CEZZ	R	150p 2kV Ceramic	AB
⚠ C609	VCFPVC3ZA103H	R	0.01 1800V Metallized Polypro Film	AD
⚠ C610	VCFPVC3ZA822H	R	8200p 1800V Metallized Polypro Film	AE
⚠ C611	VCQPPC2JB223J	R	0.022 630V Polypro Film	AC
C613	VCFPVC2DB474J	R	0.47 200V Metallized Polypro Film	AE
C614	VCKYPA2HB272K+	R	2700p 500V Ceramic	AB
C615	VCKYCY1CF104Z*	R	0.1 16V Ceramic	AA
C616	VCEA0A1HW224M+	R	0.22 50V Electrolytic	AB
C617	VCEA0A1HW474M+	R	0.47 50V Electrolytic	AB
C618	VCKYCY1HB822K*	R	8200p 50V Ceramic	AB
C619	VCKYCY1HB103K*	R	0.01 50V Ceramic	AA
C620	VCEA0A1CW108M+	R	1000 16V Electrolytic	AD
C621	VCKYPA2HB221K+	R	220p 500V Ceramic	AB
C623	VCEA0A2EW106M	R	10 250V Electrolytic	AD
C624	VCKYPA2HB102K+	R	1000p 500V Ceramic	AA
C627	VCEA0A1HW106M+	R	10 50V Electrolytic	AB
C631	VCKYPA1HB331K+	R	330p 50V Ceramic	AA
C632	VCEA0A1VW477M+	R	470 35V Electrolytic	AB
C633	VCQYTA1HM102J+	R	1000p 50V Mylar	AB
C644	VCFPVC2DB624J	R	0.62 200V Metallized Polypro Film	AD
C650	VCEA9M1HW105M+	R	1 50V Electrolytic	AB
C651	VCQYTA2AA104K+	R	0.1 100V Mylar	AB
⚠ C652	VCEA0A1VW476M+	R	47 35V Electrolytic	AB
C653	VCEA0A1CW336M+	R	33 16V Electrolytic	AB
C654	VCFYFA1HA334J+	R	0.33 50V Mylar	AB
C656	VCEA0A1HW474M+	R	0.47 50V Electrolytic	AB
C674	VCKYCY1CF104Z*	R	0.1 16V Ceramic	AA
C677	RC-FZ0377CEZZ	R	4.7 63V Metallized Polyester Film	AF
⚠ C678	VCQPPC2JB223J	R	0.022 630V Polypro Film	AC
C681	VCEA0A1VW227M+	R	220 35V Electrolytic	AC
C682	VCKYCY1HF104ZY	R	0.1 50V Ceramic	AA
C686	VCQYTA1HM104J+	R	0.1 50V Mylar	AB
C689	VCQYTA1HM104J+	R	0.1 50V Mylar	AB
C690	VCKYCY1HB822K*	R	8200p 50V Ceramic	AB
C701	RC-FZ012SGEZZ	R	0.22 AC250V Metallized Polyester Film	AE
C702	RC-KZ0029CEZZ+	R	0.01 500V Ceramic	AC
C703	RC-KZ0029CEZZ+	R	0.01 500V Ceramic	AC
C704	VCFYSB2EB224K	R	0.22 250V Metallized Polyester Film	AD
⚠ C705	RC-EZA193WJZZ	R	560 400V Electrolytic	
⚠ C706	RC-KZ016SCEZZ	R	470p 4kV Ceramic	AD
C710	VCKYPH3DB561K	R	560p 2000V Ceramic	AC
⚠ C711	RC-KZ016SCEZZ	R	470p 4kV Ceramic	AD
C712	VCKYCY1HF103Z*	R	0.01 50V Ceramic	AA
C713	VCEA0A1CW477M+	R	470 16V Electrolytic	AC
C714	VCKYPA2HB102K+	R	1000p 500V Ceramic	AA
C715	VCKYPA2HB221K+	R	220p 500V Ceramic	AB
C717	VCKYPA2HB472K+	R	4700p 500V Ceramic	AB
C719	VCFYFA1HA104J+	R	0.1 50V Mylar	AA
C722	VCQYTA1HM104J+	R	0.1 50V Mylar	AB
C723	RC-EZ0810CEZZ	R	330 160V Electrolytic	AH
C725	RC-EZ0810CEZZ	R	330 160V Electrolytic	AH
C726	VCKYPH3DB561K	R	560p 2000V Ceramic	AC
C727	VCKYPH3DB561K	R	560p 2000V Ceramic	AC
C731	RC-EZ1226CEZZ	R	3300 16V Electrolytic	AK
C732	VCKYPA2HB102K+	R	1000p 500V Ceramic	AA
C735	VCEA0A1CW106M+	R	10 16V Electrolytic	AB
C736	VCEA0A1CW108M+	R	1000 16V Electrolytic	AD
C737	VCEA0A1CW107M+	R	100 16V Electrolytic	AC
C738	VCFPVC3CA202H	R	2000p 1600V Metallized Polypro Film	AD
C741	VCKYPA2HB102K+	R	1000p 500V Ceramic	AA
C742	VCKYPA2HB102K+	R	1000p 500V Ceramic	AA
C746	VCEA9M1CW106M+	R	10 16V Electrolytic	AB
C747	VCKYCY1CF104Z*	R	0.1 16V Ceramic	AA
C756	VCEA0A1CW476M+	R	47 16V Electrolytic	AB

Ref. No.	Part No.	★	Description	Code
C757	VCEA0A1CW476M+	R	47 16V Electrolytic	AB
C764	VCEA0A1CW226M+	R	22 16V Electrolytic	AB
C781	VCFYFA1HA334J+	R	0.33 50V Mylar	AB
C783	VCQYTA1HM104J+	R	0.1 50V Mylar	AB
C784	VCKYCY1HF103Z*	R	0.01 50V Ceramic	AA
C787	VCKYCY1HF103Z*	R	0.01 50V Ceramic	AA
C788	VCEA0A1EW226M+	R	22 25V Electrolytic	AB
C801	VCCCCY1HH110JY	R	11p 50V Ceramic	AA
C802	VCKYCY1HB222K*	R	2200p 50V Ceramic	AA
C803	VCEA0A1HW224M+	R	0.22 50V Electrolytic	AB
C804	VCKYCY1CF104Z*	R	0.1 16V Ceramic	AA
C805	VCEA0A1CW337M+	R	330 16V Electrolytic	AC
C806	VCKYCY1CF104Z*	R	0.1 16V Ceramic	AA
C807	VCKYCY1CF104Z*	R	0.1 16V Ceramic	AA
C808	VCKYCY1CF104Z*	R	0.1 16V Ceramic	AA
C809	VCEA0A1CW106M+	R	10 16V Electrolytic	AB
C810	VCEA0A1CW106M+	R	10 16V Electrolytic	AB
C811	VCKYCY1HB103K*	R	0.01 50V Ceramic	AA
C812	VCKYCY1HB103K*	R	0.01 50V Ceramic	AA
C813	VCEA0A1CW107M+	R	100 16V Electrolytic	AC
C814	VCKYCY1HB103K*	R	0.01 50V Ceramic	AA
C815	VCKYCY1HB103K*	R	0.01 50V Ceramic	AA
C816	VCEA0A1CW477M+	R	470 16V Electrolytic	AC
C817	VCKYCY1HB103K*	R	0.01 50V Ceramic	AA
C901	VCEA9M1CW476M+	R	47 16V Electrolytic	AB
C902	VCKYCY1CF104Z*	R	0.1 16V Ceramic	AA
C903	VCEA0A1CW227M+	R	220 16V Electrolytic	AC
C920	VCKYCY1HB561K*	R	560p 50V Ceramic	AA
C921	VCKYCY1HB561K*	R	560p 50V Ceramic	AA
C922	VCKYCY1HB561K*	R	560p 50V Ceramic	AA
C931	VCQYTA1HM183J+	R	0.018 50V Mylar	AB
C932	VCQYTA1HM183J+	R	0.018 50V Mylar	AB
C940	VCEA0A1CW106M+	R	10 16V Electrolytic	AB
C941	VCEA0A1CW477M+	R	470 16V Electrolytic	AC
C942	VCEA0A1CW106M+	R	10 16V Electrolytic	AB
C943	VCEA0A1CW106M+	R	10 16V Electrolytic	AB
C944	VCEA0A1CW106M+	R	10 16V Electrolytic	AB
C958	VCKYCY1HB332K*	R	3300p 50V Ceramic	AA
C960	VCE9GA1HW475M+	R	4.7 50V Electrolytic	AB
C961	VCE9GA1HW475M+	R	4.7 50V Electrolytic	AB
C2003	VCEA0A1HW104M+	R	0.1 50V Electrolytic	AB
C2004	VCEA0A1CW476M+	R	47 16V Electrolytic	AB
C2005	VCEA0A1CW106M+	R	10 16V Electrolytic	AB
C2010	VCEA0A1CW476M+	R	47 16V Electrolytic	AB
C2025	VCCCCY1HH820J*	R	82p 50V Ceramic	AA
C2040	VCKYCY1CF104Z*	R	0.1 16V Ceramic	AA
C2041	VCEA0A1HW105M+	R	1 50V Electrolytic	AB
C2044	VCQYTA1HM104J+	R	0.1 50V Mylar	AB
C2062	VCEA0A1CW107M+	R	100 16V Electrolytic	AC
C2063	VCKYCY1CF104Z*	R	0.1 16V Ceramic	AA
C2201	VCKYCY1HB681K*	R	680p 50V Ceramic	AA
C2202	VCCCCY1HH390J*	R	39p 50V Ceramic	AA
C2512	RC-EZ0004PEZZ	R	2200 35V Electrolytic	AH
C5701	VCQYTA2AA563K+	R	0.056 100V Mylar	AB

RESISTORS

RJ10	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA
RJ11	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA
RJ14	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA
RJ15	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA
RJ17	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA
RJ19	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA
RJ21	VRS-CY1JF000J*	R	0 (29WF200)	1/16W	Metal Oxide	AA
RJ22	VRS-CY1JF000J*	R	0 (29WF500)	1/16W	Metal Oxide	AA
RJ26	VRS-CY1JF000J*	R	0 (29WF500)	1/16W	Metal Oxide	AA
RJ28	VRS-CY1JF000J*	R	0 (29WF200)	1/16W	Metal Oxide	AA
RJ29	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA
RJ32	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA
RJ35	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA
RJ38	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA
RJ43	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA
RJ52	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
RJ53	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ54	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ55	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ63	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ65	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ66	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ67	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ78	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ79	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ80	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ86	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ90	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ93	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ94	VRS-CY1JF000J*	R	0 1/16W Metal Oxide (29WF200)	AA
RJ95	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ98	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ99	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ100	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ103	VRS-CY1JF000J*	R	0 1/16W Metal Oxide (29WF500)	AA
RJ106	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ113	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ114	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ115	VRS-CY1JF000J*	R	0 1/16W Metal Oxide (29WF200)	AA
RJ116	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ119	VRS-CY1JF000J*	R	0 1/16W Metal Oxide (29WF200)	AA
RJ120	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ121	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ122	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ123	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ124	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ125	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ126	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ127	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ130	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ131	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ132	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
R57	VRS-CY1JF392J*	R	3.9k 1/16W Metal Oxide	AA
R201	VRS-CY1JF151J*	R	150 1/16W Metal Oxide	AA
R202	VRS-CY1JF122J*	R	1.2k 1/16W Metal Oxide	AA
R203	VRS-CY1JF102J*	R	1k 1/16W Metal Oxide (29WF500)	AA
R203	VRS-CY1JF331J*	R	330 1/16W Metal Oxide (29WF200)	AA
R204	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R205	VRS-CY1JF682J*	R	6.8k 1/16W Metal Oxide (29WF500)	AA
R206	VRS-CY1JF222J*	R	2.2k 1/16W Metal Oxide (29WF500)	AA
R207	VRS-CY1JF222J*	R	2.2k 1/16W Metal Oxide (29WF500)	AA
R208	VRS-CY1JF682J*	R	6.8k 1/16W Metal Oxide	AA
R209	VRS-CY1JF222J*	R	2.2k 1/16W Metal Oxide	AA
R210	VRS-CY1JF222J*	R	2.2k 1/16W Metal Oxide	AA
R211	VRS-CY1JF331J*	R	330 1/16W Metal Oxide (29WF200)	AA
R212	VRS-CY1JF000J*	R	0 1/16W Metal Oxide (29WF200)	AA
R216	VRS-CY1JF152J*	R	1.5k 1/16W Metal Oxide (29WF200)	AA
R217	VRS-CY1JF000J*	R	0 1/16W Metal Oxide (29WF200)	AA
R220	VRS-CY1JF392J*	R	3.9k 1/16W Metal Oxide	AA
R225	VRD-RA2BE680J*	R	68 1/8W Carbon	AA
R226	VRD-RA2BE101J*	R	100 1/8W Carbon	AA
R227	VRS-CY1JF333J*	R	33k 1/16W Metal Oxide	AA
R228	VRS-CY1JF272J*	R	2.7k 1/16W Metal Oxide	AA
R229	VRS-CY1JF221J*	R	220 1/16W Metal Oxide	AA
R233	VRS-CY1JF102J*	R	1k 1/16W Metal Oxide (29WF200)	AA
R234	VRS-CY1JF102J*	R	1k 1/16W Metal Oxide	AA
R235	VRS-CY1JF103J*	R	10k 1/16W Metal Oxide (29WF200)	AA
R236	VRS-CY1JF103J*	R	10k 1/16W Metal Oxide (29WF200)	AA
R307	VRS-CY1JF333J*	R	33k 1/16W Metal Oxide (29WF200)	AA
R361	VRS-CY1JF224J*	R	220k 1/16W Metal Oxide	AD
R362	VRD-RA2BE222J*	R	2.2k 1/8W Carbon	AA
R363	VRD-RA2BE222J*	R	2.2k 1/8W Carbon	AA
R364	VRS-CY1JF272J*	R	2.7k 1/16W Metal Oxide	AA
R365	VRS-CY1JF272J*	R	2.7k 1/16W Metal Oxide	AA
R367	VRN-VV3DBR68J	R	0.68 2W Metal Film	AA
R368	VRD-RA2BE222J*	R	2.2k 1/8W Carbon	AA
R369	VRD-RA2BE822J*	R	8.2k 1/8W Carbon	AA
R371	VRS-CY1JF102J*	R	1k 1/16W Metal Oxide	AA
R372	VRD-RA2BE223J*	R	22k 1/8W Carbon	AA
R410	VRD-RA2BE100J*	R	10 1/8W Carbon (29WF500)	AA
R411	VRS-CY1JF101J*	R	100 1/16W Metal Oxide (29WF500)	AA
R423	VRS-CY1JF331J*	R	330 1/16W Metal Oxide	AA
R424	VRS-CY1JF680J*	R	68 1/16W Metal Oxide	AA
R425	VRS-CY1JF331J*	R	330 1/16W Metal Oxide	AA
R430	VRD-RA2BE331J*	R	330 1/8W Carbon (29WF500)	AA
R431	VRS-CY1JF271J*	R	270 1/16W Metal Oxide (29WF500)	AA
R432	VRS-CY1JF102J*	R	1k 1/16W Metal Oxide (29WF500)	AA
R440	VRS-CY1JF101J*	R	100 1/16W Metal Oxide (29WF500)	AA
R450	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R453	VRS-CY1JF103J*	R	10k 1/16W Metal Oxide	AA
R454	VRD-RA2BE101J*	R	100 1/8W Carbon	AA
R471	VRS-CY1JF223J*	R	22k 1/16W Metal Oxide	AA
R472	VRS-CY1JF821J*	R	820 1/16W Metal Oxide	AA
R473	VRS-CY1JF102J*	R	1k 1/16W Metal Oxide	AA
R474	VRS-CY1JF471J*	R	470 1/16W Metal Oxide	AA
R475	VRS-CY1JF102J*	R	1k 1/16W Metal Oxide	AA
R476	VRS-CY1JF393J*	R	39k 1/16W Metal Oxide	AA
R477	VRS-CY1JF182J*	R	1.8k 1/16W Metal Oxide	AA
R478	VRS-CY1JF151J*	R	150 1/16W Metal Oxide	AA
R479	VRS-CY1JF393J*	R	39k 1/16W Metal Oxide	AA
R480	VRS-CY1JF273J*	R	27k 1/16W Metal Oxide	AA
R481	VRS-CY1JF152J*	R	1.5k 1/16W Metal Oxide	AA
R482	VRD-RA2BE101J*	R	100 1/8W Carbon	AA
R483	VRS-CY1JF471J*	R	470 1/16W Metal Oxide	AA
⚠ R501	VRN-VV3DB2R2J	R	2.2 2W Metal Film	AB
R510	VRD-RA2BE471J*	R	470 1/8W Carbon	AA
R511	VRD-RA2BE393J*	R	39k 1/8W Carbon	AA
R512	VRD-RA2BE563J*	R	56k 1/8W Carbon	AA
R513	VRS-CY1JF273J*	R	27k 1/16W Metal Oxide	AA
R514	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R520	VRS-CY1JF184J*	R	180k 1/16W Metal Oxide	AA
R521	VRD-RM2HD222JY	R	2.2k 1/2W Carbon	AA
R523	VRN-VV3DB1R0J	R	1 2W Metal Film	AB
R524	VRS-VV3AB391J	R	390 1W Metal Oxide	AA
R532	VRD-RA2BE473J*	R	47k 1/8W Carbon	AA
R534	VRD-RA2BE181J*	R	180 1/8W Carbon	AA
R551	VRS-CY1JF562F*	R	5.6k 1/16W Metal Oxide	AA
R578	VRD-RA2BE562J*	R	5.6k 1/8W Carbon	AA
R601	VRD-RM2HD220J*	R	22 1/2W Carbon	AA
R604	VRS-KA3NG122J	R	1.2k 7W Metal Oxide	AD
R605	VRD-RM2HD331J*	R	330 1/2W Carbon	AA
R606	VRD-RM2HD271J*	R	270 1/2W Carbon	AA
R609	VRS-VV3AB562J	R	5.6k 1W Metal Oxide	AA
R610	VRS-VV3AB221J	R	220 1W Metal Oxide	AA
R611	VRW-KQ41C3R3K	R	3.3 15W Cement	AG
R612	VRS-CY1JF123J*	R	12k 1/16W Metal Oxide	AA
R613	VRS-CY1JF474J*	R	470k 1/16W Metal Oxide	AA
R614	VRS-CY1JF395JY	R	3.9M 1/16W Metal Oxide	AA
R616	VRD-RA2BE103J*	R	10k 1/8W Carbon	AA
R617	VRS-CY1JF103J*	R	10k 1/16W Metal Oxide	AA
R618	VRS-CY1JF473J*	R	47k 1/16W Metal Oxide	AA
R620	VRD-RM2HD102J*	R	1k 1/2W Carbon	AA
⚠ R621	VRN-VV3DB1R5J	R	1.5 2W Metal Film	AB
⚠ R622	VRN-SV2HCR56J	R	0.56 1/2W Metal Film	AA
⚠ R623	VRN-VV3AB1R0J	R	1 1W Metal Film	AA

Ref. No.	Part No.	★			Description	Code
R624	VRD-RM2HD332J*	R	3.3k	1/2W	Carbon	AA
R627	VRS-KT3LB561J	R	560	3W	Metal Oxide	AE
R631	VRS-VV3AB103J	R	10k	1W	Metal Oxide	AA
R633	VRD-RA2EE683JY	R	68k	1/4W	Carbon	AA
R634	VRD-RA2EE124J*	R	120k	1/4W	Carbon	AA
R635	VRD-RA2EE104J*	R	100k	1/4W	Carbon	AA
R638	VRS-CY1JF103J*	R	10k	1/16W	Metal Oxide	AA
R639	VRD-RA2BE561J*	R	560	1/8W	Carbon	AA
R640	VRD-RA2BE563J*	R	56k	1/8W	Carbon	AA
R641	VRD-RA2BE151J*	R	150	1/8W	Carbon	AA
⚠ R651	VRD-RM2HD1R0J*	R	1	1/2W	Carbon	AA
⚠ R652	VRD-RA2EE103JY	R	10k	1/4W	Carbon	AA
⚠ R653	VRD-RA2EE562J*	R	5.6k	1/4W	Carbon	AA
⚠ R654	VRD-RA2EE393JY	R	39k	1/4W	Carbon	AA
R655	VRS-CY1JF562J*	R	5.6k	1/16W	Metal Oxide	AA
R656	VRS-CY1JF224J*	R	220k	1/16W	Metal Oxide	AD
R658	VRS-VV3DB123J	R	12k	2W	Metal Oxide	AA
R659	VRS-CY1JF471J*	R	470	1/16W	Metal Oxide	AA
R663	VRS-CY1JF102J*	R	1k	1/16W	Metal Oxide	AA
R664	VRS-CY1JF471J*	R	470	1/16W	Metal Oxide	AA
R666	VRS-CY1JF223J*	R	22k	1/16W	Metal Oxide	AA
R667	VRS-CY1JF562J*	R	5.6k	1/16W	Metal Oxide	AA
R668	VRD-RA2EE680J*	R	68	1/4W	Carbon	AA
R669	VRS-CY1JF103J*	R	10k	1/16W	Metal Oxide	AA
R670	VRD-RM2HD563JY	R	56k	1/2W	Carbon	AA
R671	VRS-SV2HC102J	R	1k	1/2W	Metal Oxide	AA
R672	VRD-RM2HD393J*	R	39k	1/2W	Carbon	AA
R674	VRD-RA2BE103J*	R	10k	1/8W	Carbon	AA
R675	VRN-VV3DB3R3J	R	3.3	2W	Metal Film	AB
R677	VRD-RA2EE103JY	R	10k	1/4W	Carbon	AA
R678	VRD-RA2BE472J*	R	4.7k	1/8W	Carbon	AA
R679	VRD-RM2HD103J*	R	10k	1/2W	Carbon	AA
R681	VRS-CY1JF221J*	R	220	1/16W	Metal Oxide	AA
R686	VRS-CY1JF473J*	R	47k	1/16W	Metal Oxide	AA
R688	VRS-CY1JF223J*	R	22k	1/16W	Metal Oxide	AA
R689	VRS-CY1JF102J*	R	1k	1/16W	Metal Oxide	AA
R690	VRS-CY1JF683J*	R	68k	1/16W	Metal Oxide	AA
R691	VRS-CY1JF103J*	R	10k	1/16W	Metal Oxide	AA
R692	VRS-CY1JF473J*	R	47k	1/16W	Metal Oxide	AA
R693	VRS-CY1JF473J*	R	47k	1/16W	Metal Oxide	AA
R694	VRS-CY1JF223J*	R	22k	1/16W	Metal Oxide	AA
R695	VRS-CY1JF103J*	R	10k	1/16W	Metal Oxide	AA
R696	VRD-RA2BE125JY	R	1.2M	1/8W	Carbon	AA
R698	VRS-CY1JF101J*	R	100	1/16W	Metal Oxide	AA
R699	VRS-CY1JF123J*	R	12k	1/16W	Metal Oxide	AA
⚠ R701	VRC-UA2HG825K*	R	8.2M	1/2W	Solid	AA
R702	VRW-KQ41C1R8K	R	1.8	15W	Cement	AG
R703	VRD-RM2HD391J*	R	390	1/2W	Carbon	AA
R704	VRD-RM2HD334J*	R	330k	1/2W	Carbon	AA
R705	VRN-VV3DBR18J	R	0.18	2W	Metal Film	AD
R706	VRN-VV3DBR18J	R	0.18	2W	Metal Film	AD
R707	VRD-RM2HD270J*	R	27	1/2W	Carbon	AA
⚠ R708	VRC-UA2HG825K*	R	8.2M	1/2W	Solid	AA
R709	VRD-RA2BE223J*	R	22k	1/8W	Carbon	AA
R710	VRD-RM2HD103J*	R	10k	1/2W	Carbon	AA
R713	VRD-RM2HD122JY	R	1.2k	1/2W	Carbon	AA
R714	VRD-RM2HD100JY	R	10	1/2W	Carbon	AA
R715	VRD-RA2BE470J*	R	47	1/8W	Carbon	AA
R718	VRD-RA2BE102J*	R	1k	1/8W	Carbon	AA
R719	VRS-CY1JF103J*	R	10k	1/16W	Metal Oxide	AA
R721	VRD-RM2HD102J*	R	1k	1/2W	Carbon	AA
R724	VRD-RA2BE102J*	R	1k	1/8W	Carbon	AA
R725	VRD-RM2HD821JY	R	820	1/2W	Carbon	AA
R727	VRS-CY1JF473J*	R	47k	1/16W	Metal Oxide	AA
R728	VRS-CY1JF394J*	R	390k	1/16W	Metal Oxide	AA
R731	VRD-RA2BE151J*	R	150	1/8W	Carbon	AA
R732	VRD-RM2HD102J*	R	1k	1/2W	Carbon	AA
R733	VRS-CY1JF103J*	R	10k	1/16W	Metal Oxide	AA
R735	VRS-CY1JF103J*	R	10k	1/16W	Metal Oxide	AA
R738	VRS-VV3AB473J	R	47k	1W	Metal Oxide	AB
R744	VRS-CY1JF272J*	R	2.7k	1/16W	Metal Oxide	AA
R745	VRS-CY1JF472J*	R	4.7k	1/16W	Metal Oxide	AA
R746	VRS-CY1JF103J*	R	10k	1/16W	Metal Oxide	AA
R747	VRS-CY1JF103J*	R	10k	1/16W	Metal Oxide	AA
R748	VRS-CY1JF103J*	R	10k	1/16W	Metal Oxide	AA
R751	VRD-RA2BE473J*	R	47k	1/8W	Carbon	AA

Ref. No.	Part No.	★			Description	Code
R769	VRS-CY1JF103J*	R	10k	1/16W	Metal Oxide	AA
R770	VRD-RM2HD823JY	R	82k	1/2W	Carbon	AA
R771	VRD-RM2HD273J*	R	27k	1/2W	Carbon	AA
R772	VRS-CY1JF103J*	R	10k	1/16W	Metal Oxide	AA
R774	VRS-CY1JF393J*	R	39k	1/16W	Metal Oxide	AA
R775	VRS-CY1JF563J*	R	56k	1/16W	Metal Oxide	AA
R777	VRS-KA3HG8R2K	R	8.2	5W	Metal Oxide	AD
R778	VRS-VV3AB100J	R	10	1W	Metal Oxide	AA
R779	VRS-CY1JF273J*	R	27k	1/16W	Metal Oxide	AA
R801	VRS-CY1JF333J*	R	33k	1/16W	Metal Oxide	AA
R802	VRS-CY1JF101J*	R	100	1/16W	Metal Oxide	AA
R804	VRS-CY1JF102J*	R	1k	1/16W	Metal Oxide	AA
R805	VRS-CY1JF272J*	R	2.7k	1/16W	Metal Oxide	AA
R806	VRS-CY1JF681J*	R	680	1/16W	Metal Oxide	AA
R807	VRS-CY1JF681J*	R	680	1/16W	Metal Oxide	AA
R808	VRS-CY1JF681J*	R	680	1/16W	Metal Oxide	AA
R809	VRS-CY1JF101J*	R	100	1/16W	Metal Oxide	AA
R810	VRD-RA2BE101J*	R	100	1/8W	Carbon	AA
R811	VRD-RA2BE101J*	R	100	1/8W	Carbon	AA
R812	VRS-CY1JF224J*	R	220k	1/16W	Metal Oxide	AD
R813	VRD-RM2HD271J*	R	270	1/2W	Carbon	AA
R814	VRD-RA2BE101J*	R	100	1/8W	Carbon	AA
R815	VRD-RA2BE101J*	R	100	1/8W	Carbon	AA
R816	VRS-CY1JF272J*	R	2.7k	1/16W	Metal Oxide	AA
R817	VRS-CY1JF272J*	R	2.7k	1/16W	Metal Oxide	AA
R818	VRS-CY1JF272J*	R	2.7k	1/16W	Metal Oxide	AA
R819	VRS-CY1JF101J*	R	100	1/16W	Metal Oxide	AA
R820	VRS-CY1JF101J*	R	100	1/16W	Metal Oxide	AA
R821	VRS-CY1JF101J*	R	100	1/16W	Metal Oxide	AA
R822	VRD-RA2BE101J*	R	100	1/8W	Carbon	AA
R823	VRS-CY1JF152J*	R	1.5k	1/16W	Metal Oxide	AA
R824	VRS-CY1JF152J*	R	1.5k	1/16W	Metal Oxide	AA
R825	VRS-CY1JF152J*	R	1.5k	1/16W	Metal Oxide	AA
R826	VRS-CY1JF101J*	R	100	1/16W	Metal Oxide	AA
R827	VRS-CY1JF100J*	R	10	1/16W	Metal Oxide	AA
				(29WF200)		
R827	VRS-CY1JF120J*	R	12	1/16W	Metal Oxide	
				(29WF500)		
R830	VRD-RA2BE102J*	R	1k	1/8W	Carbon	AA
R901	VRD-RA2BE100J*	R	10	1/8W	Carbon	AA
R902	VRS-CY1JF223J*	R	22k	1/16W	Metal Oxide	AA
R908	VRD-RA2BE101J*	R	100	1/8W	Carbon	AA
R924	VRS-CY1JF750J*	R	75	1/16W	Metal Oxide	AA
R925	VRS-CY1JF750J*	R	75	1/16W	Metal Oxide	AA
R926	VRS-CY1JF151J*	R	150	1/16W	Metal Oxide	AA
R927	VRS-CY1JF151J*	R	150	1/16W	Metal Oxide	AA
R928	VRS-CY1JF151J*	R	150	1/16W	Metal Oxide	AA
R950	VRS-CY1JF750J*	R	75	1/16W	Metal Oxide	AA
R951	VRS-CY1JF151J*	R	150	1/16W	Metal Oxide	AA
R952	VRD-RA2BE333J*	R	33k	1/8W	Carbon	AA
R974	VRS-CY1JF561J*	R	560	1/16W	Metal Oxide	AA
R975	VRS-CY1JF561J*	R	560	1/16W	Metal Oxide	AA
R976	VRS-CY1JF101J*	R	100	1/16W	Metal Oxide	AA
R979	VRS-CY1JF104J*	R	100k	1/16W	Metal Oxide	AA
R980	VRS-CY1JF223J*	R	22k	1/16W	Metal Oxide	AA
R981	VRS-CY1JF102J*	R	1k	1/16W	Metal Oxide	AA
R982	VRS-CY1JF473J*	R	47k	1/16W	Metal Oxide	AA
R983	VRS-CY1JF102J*	R	1k	1/16W	Metal Oxide	AA
R984	VRS-CY1JF473J*	R	47k	1/16W	Metal Oxide	AA
R985	VRS-CY1JF101J*	R	100	1/16W	Metal Oxide	AA
R986	VRS-CY1JF471J*	R	470	1/16W	Metal Oxide	AA
R987	VRS-CY1JF471J*	R	470	1/16W	Metal Oxide	AA
R988	VRD-RA2BE750J*	R	75	1/8W	Carbon	AA
R997	VRS-CY1JF104J*	R	100k	1/16W	Metal Oxide	AA
R2001	VRD-RA2BE223J*	R	22k	1/8W	Carbon	AA
R2002	VRS-CY1JF103J*	R	10k	1/16W	Metal Oxide	AA
R2004	VRD-RA2BE101J*	R	100	1/8W	Carbon	AA
R2007	VRS-CY1JF562J*	R	5.6k	1/16W	Metal Oxide	AA
R2009	VRS-CY1JF103J*	R	10k	1/16W	Metal Oxide	AA
R2010	VRS-CY1JF102J*	R	1k	1/16W	Metal Oxide	AA
R2011	VRD-RA2BE561J*	R	560	1/8W	Carbon	AA
R2013	VRS-CY1JF822J*	R	8.2k	1/16W	Metal Oxide	AA
R2016	VRS-CY1JF103J*	R	10k	1/16W	Metal Oxide	AA
R2024	VRS-CY1JF152J*	R	1.5k	1/16W	Metal Oxide	AA
R2025	VRS-CY1JF152J*	R	1.5k	1/16W	Metal Oxide	AA
R2026	VRS-CY1JF152J*	R	1.5k	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R2027	VRS-CY1JF472J*	R	4.7k 1/16W Metal Oxide	AA
R2028	VRS-CY1JF102J*	R	1k 1/16W Metal Oxide	AA
R2030	VRD-RA2BE472J*	R	4.7k 1/8W Carbon	AA
R2031	VRD-RA2BE103J*	R	10k 1/8W Carbon	AA
R2032	VRD-RA2BE182J*	R	1.8k 1/8W Carbon	AA
R2036	VRD-RA2BE182J*	R	1.8k 1/8W Carbon	AA
R2040	VRS-CY1JF102J*	R	1k 1/16W Metal Oxide	AA
R2041	VRS-CY1JF333J*	R	33k 1/16W Metal Oxide	AA
R2042	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R2043	VRS-CY1JF333J*	R	33k 1/16W Metal Oxide	AA
R2046	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R2047	VRS-CY1JF221J*	R	220 1/16W Metal Oxide	AA
R2048	VRS-CY1JF332J*	R	3.3k 1/16W Metal Oxide	AA
R2052	VRD-RA2BE101J*	R	100 1/8W Carbon	AA
R2054	VRS-CY1JF102J*	R	1k 1/16W Metal Oxide	AA
R2055	VRS-CY1JF682J*	R	6.8k 1/16W Metal Oxide	AA
R2060	VRS-CY1JF221J*	R	220 1/16W Metal Oxide	AA
R2061	VRS-CY1JF332J*	R	3.3k 1/16W Metal Oxide	AA
R2066	VRD-RA2BE103J*	R	10k 1/8W Carbon	AA
R2067	VRD-RA2BE222J*	R	2.2k 1/8W Carbon	AA
R2071	VRD-RA2BE102J*	R	1k 1/8W Carbon (29WF500)	AA
R2072	VRD-RA2BE102J*	R	1k 1/8W Carbon (29WF500)	AA
R2081	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R2084	VRS-CY1JF103J*	R	10k 1/16W Metal Oxide	AA
R2087	VRD-RA2BE182J*	R	1.8k 1/8W Carbon	AA
R2101	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R2102	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R2201	VRS-CY1JF222J*	R	2.2k 1/16W Metal Oxide	AA
R2202	VRS-CY1JF103J*	R	10k 1/16W Metal Oxide	AA
R2203	VRS-CY1JF184J*	R	180k 1/16W Metal Oxide	AA
R2211	VRS-CY1JF222J*	R	2.2k 1/16W Metal Oxide	AA
R2212	VRS-CY1JF682J*	R	6.8k 1/16W Metal Oxide	AA
R2213	VRS-CY1JF333J*	R	33k 1/16W Metal Oxide	AA
R2401	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R2402	VRD-RA2BE101J*	R	100 1/8W Carbon	AA
R2403	VRD-RA2BE101J*	R	100 1/8W Carbon	AA
R2404	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R2501	VRS-CY1JF183J*	R	18k 1/16W Metal Oxide	AA
R2502	VRS-CY1JF183J*	R	18k 1/16W Metal Oxide	AA
R2503	VRD-RA2BE103J*	R	10k 1/8W Carbon	AA
R2504	VRD-RA2BE103J*	R	10k 1/8W Carbon	AA
R5701	VRD-RA2BE185JY	R	1.8M 1/8W Carbon	AA
R5702	VRD-RA2BE474J*	R	470k 1/8W Carbon	AA
R5703	VRD-RA2BE104J*	R	100k 1/8W Carbon	AA
R5704	VRD-RA2BE472J*	R	4.7k 1/8W Carbon	AA

BALUNES

FB601	RBLN-0037CEZZ*	R	Balun	AB
FB671	RBLN-0037CEZZ*	R	Balun	AB
FB702	RBLN-0020CEZZ+	R	Balun	AB
FB706	RBLN-0037CEZZ*	R	Balun	AB
FB707	RBLN-0037CEZZ*	R	Balun	AB

MISCELLANEOUS PARTS

J901	QTANJ0656CEZZ	R	Terminal	AK
J902	QTANJ0655CEZZ	R	Terminal	AK
J921	QSOCD0430CEZZ	R	Socket, S-VIDEO	AE
P361	QPLGN0461CEZZ	R	Plug, 4Pin(S1-4)	AB
P362	QPLGN0661CEZZ	R	Plug, 6Pin(HP)	AD
P401	QPLGN0861CEZZ	R	Plug, 8Pin(KY)	AC
P601	QPLGN0160FJZZ	R	Plug, 5Pin(K1-5)	AD
P621	QPLGN0761CEZZ	R	Plug, 7Pin(H)	AD
P701	QPLGN0260CEZZ	R	Plug, 2Pin(M1-2)	AC
P703	QPLGN0269GEZZ	R	Plug, 2Pin(P1-2)	AB
P1901	QPLGN1559REZZ	R	Plug, 15Pin(VA)	AC
P1902	QPLGN1559REZZ	R	Plug, 15Pin(VB)	AC
P1903	QPLGN1059REZZ	R	Plug, 10Pin(VC)	AC
P2003	QPLGN0961CEZZ	R	Plug, 9Pin(KA)	AD
P2401	QPLGN0661CEZZ	R	Plug	AD
RDA361	PRDAR0342PEFW	R	Heat Sink for IC361	AL
RDA501	PRDAR0113GJFW	R	Heat Sink for IC501	AH
RDA602	PRDARA017WJFW	R	Heat Sink for Q602	AG
RDA673	PRDAR1007MEFW	R	Heat Sink for Q673	AH
RDA701	PRDAR0117GJFW	R	Heat Sink for Q701	AL
RDA713	PRDAR0139PEFW	R	Heat Sink for D713	AC
RDA751	PRDAR0111GJFW	R	Heat Sink for IC751	AF
⚠ RY701	RRLYU0045CEZZ	R	Relay	AL
SC3001	QSOCN0259FJ00	R	Socket, 10Pin(EA)	AE
SC3002	QSOCN0255FJ00	R	Socket, 6Pin(EB)	AD

DUNTKA527WED1
PWB-B CRT UNIT

INTEGRATED CIRCUIT

IC850	VHiTDA6103Q-1	R	TDA6103Q/N3	AL

TRANSISTORS

Q850	VS2PA1015Y+-1+	R	2PA1015Y	AC
Q851	VS2PC1815Y+-1+	R	2PC1815Y	AC
Q1504	VS2PC1815Y+-1+	R	2PC1815Y	AC
Q1505	VS2PA1015Y+-1+	R	2PA1015Y	AC
Q1506	VS2SA1964E/-1	R	2SA1964E	AF
Q1507	VS2SC5248E/-1	R	2SC5248E	AE

DIODES

D850	RH-DX0220CEZZ*	R	DX0220CE	AB
D851	RH-DX0220CEZZ*	R	DX0220CE	AB
D852	RH-DX0220CEZZ*	R	DX0220CE	AB
D853	RH-EX0647GEZZ*	R	Zener Diode, 15V	AA
D854	VHD1SS133++-1*	R	1SS133	
D855	VHD1SS133++-1*	R	1SS133	
D860	VHD1SS133++-1*	R	1SS133	
D890	VHD1SS133++-1*	R	1SS133	
D899	RH-EX0615GEZZ*	R	Zener Diode, 5.6V	AA
D1502	VHD1SS133++-1*	R	1SS133	
D1503	VHD1SS133++-1*	R	1SS133	
D1506	RH-DX0487CEZZ*	R	DX0487CE	AC
D1507	RH-DX0487CEZZ*	R	DX0487CE	AC
D1510	VHD1SS133++-1*	R	1SS133	

CAPACITORS

C850	VCFYSB2EB823J	R	0.082	250V		AD
C851	RC-KZ018JCEZZ	R	0.01	AC250V		AC
C852	VCEA0A1CW106M+	R	10	16V	Electrolytic	AB
C853	VCFYFA1HA224J+	R	0.22	50V	Mylar	AB
C854	VCEA0A1CW227M+	R	220	16V	Electrolytic	AC
C855	VCEA0A2EW106M+	R	10	250V	Electrolytic	AD
C856	VCEA0A1CW226M+	R	22	16V	Electrolytic	AB
C1501	VCEA0A1EW476M+	R	47	25V	Electrolytic	AB
C1506	VCKYPA1HF103Z+	R	0.01	50V	Ceramic	AA
C1508	VCKYPA2HB472K+	R	4700p	500V	Ceramic	AB
C1509	VCKYPA2HB472K+	R	4700p	500V	Ceramic	AB
C1510	VCKYPA1HF103Z+	R	0.01	50V	Ceramic	AA
C1511	VCKYPA1HF103Z+	R	0.01	50V	Ceramic	AA
C1515	VCEA0A1EW476M+	R	47	25V	Electrolytic	AB
C1516	VCEA0A1EW476M+	R	47	25V	Electrolytic	AB
C1517	VCEA0A2AW106M+	R	10	100V	Electrolytic	AC
C1518	VCCSPA2HL560K+	R	56p	500V	Ceramic	AA
C1519	VCEA4A2CN106M+	R	10	160V	Electrolytic	AC

RESISTORS

R856	VRD-RM2HD224J*	R	220k	1/2W	Carbon	AA
R857	VRD-RM2HD224J*	R	220k	1/2W	Carbon	AA
R858	VRD-RM2HD224J*	R	220k	1/2W	Carbon	AA
R862	VRC-MA2HG152K*	R	1.5k	1/2W	Solid	AA
R863	VRC-MA2HG152K*	R	1.5k	1/2W	Solid	AA
R864	VRC-MA2HG152K*	R	1.5k	1/2W	Solid	AA
R869	VRD-RA2BE153J*	R	15k	1/8W	Carbon	AA
R870	VRD-RA2BE223J*	R	22k	1/8W	Carbon	AA
R871	VRD-RA2BE223J*	R	22k	1/8W	Carbon	AA
R872	VRD-RA2EE680J*	R	68	1/4W	Carbon	AA
R873	VRD-RM2HD224J*	R	220k	1/2W	Carbon	AA
R874	VRD-RM2HD124J*	R	120k	1/2W	Carbon	AA
R875	VRD-RM2HD124J*	R	120k	1/2W	Carbon	AA
R876	VRD-RM2HD124J*	R	120k	1/2W	Carbon	AA
R877	VRD-RA2BE103J*	R	10k	1/8W	Carbon	AA
R880	VRD-RA2BE152J*	R	1.5k	1/8W	Carbon	AA

Ref. No.	Part No.	★	Description			Code
R881	VRD-RA2BE152J*	R	1.5k	1/8W	Carbon	AA
R882	VRD-RA2BE392J*	R	3.9k	1/8W	Carbon	AA
R883	VRD-RA2BE152J*	R	1.5k	1/8W	Carbon	AA
R884	VRD-RA2BE272J*	R	2.7k	1/8W	Carbon	AA
R885	VRD-RA2BE272J*	R	2.7k	1/8W	Carbon	AA
R886	VRD-RA2BE272J*	R	2.7k	1/8W	Carbon	AA
R887	VRD-RA2BE272J*	R	2.7k	1/8W	Carbon	AA
R1511	VRD-RA2BE101J*	R	100	1/8W	Carbon	AA
⚠ R1513	VRS-VV3DB221J	R	220	2W	Metal Oxide	AA
R1514	VRD-RA2BE100J*	R	10	1/8W	Carbon	AA
R1515	VRD-RA2BE820J*	R	82	1/8W	Carbon	AA
R1516	VRD-RA2BE820J*	R	82	1/8W	Carbon	AA
R1517	VRD-RA2BE122J*	R	1.2k	1/8W	Carbon	AA
R1518	VRD-RA2BE683J*	R	68k	1/8W	Carbon	AA
R1519	VRD-RA2BE123J*	R	12k	1/8W	Carbon	AA
R1520	VRD-RA2BE683J*	R	68k	1/8W	Carbon	AA
R1521	VRD-RA2BE122J*	R	1.2k	1/8W	Carbon	AA
R1525	VRD-RA2EE560J*	R	56	1/4W	Carbon	AA
R1526	VRD-RA2EE560J*	R	56	1/4W	Carbon	AA
R1527	VRD-RA2EE1R5JY	R	1.5	1/4W	Carbon	AA
R1528	VRD-RA2EE1R5JY	R	1.5	1/4W	Carbon	AA
⚠ R1529	VRS-VV3DB221J	R	220	2W	Metal Oxide	AA
R1530	VRD-RA2BE222J*	R	2.2k	1/8W	Carbon	AA

BALUNES

FB850	RBLN-0091GEZZ*	R	Balun	AB
FB1501	RBLN-0020CEZZ+	R	Balun	AB

MISCELLANEOUS PART

P854	QPLGN0761CEZZ	R	Plug, 7Pin(H)	AD
P856	QTiPM0083CEZZ	R	Tip	AB
P858	QTiPM0083CEZZ	R	Tip	AB
P860	QPLGN0861CEZZ	R	Plug, 8Pin(KY)	AC
P861	QPLGN0261CEZZ	R	Plug, 2Pin(PU1-2)	AB
RDA850	PRDAR0248PEFW	R	Heat Sink for IC850	AF
RDA1506	PRDAR0083PEFW	R	Heat Sink for Q1506	AD
RDA1507	PRDAR0083PEFW	R	Heat Sink for Q1507	AD
⚠ SC850	QSOCV0937CEZZ	R	Socket, 12Pin	AL

DUNTKB025WEA6
PWB-C AV COMB UNIT

INTEGRATED CIRCUITS

IC1400	VHiMN82362+-1Q	R	I.C.	AW
IC1402	VHiNJ2233BM-1Y	R	NJM2233BM	AE
IC1900	VHiCXA2089Q-1S	R	CXA2089Q	AN
IC1901	VHiNJ2233BM-1Y	R	NJM2233BM	AE

TRANSISTORS

Q1401	VSiMZ1A////-1*	R	iMZ1A	AC
Q1404	VSiMZ1A////-1*	R	iMZ1A	AC
Q1405	VSiMZ1A////-1*	R	iMZ1A	AC
Q1406	VS2PD601AR/-1*	R	2PD601AR	AB
Q1407	VS2PD601AR/-1*	R	2PD601AR	AB
Q1461	VS2PD601AR/-1*	R	2PD601AR	AB
Q1900	VS2PD601AR/-1*	R	2PD601AR	AB
Q1901	VS2PD601AR/-1*	R	2PD601AR	AB
Q1903	VS2PD601AR/-1*	R	2PD601AR	AB

CAPACITORS

C1400	VCKYCY1CF104Z*	R	0.1	16V	Ceramic	AA
C1401	VCCCCY1HH820J*	R	82p	50V	Ceramic	AA
C1403	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1404	VCEA0A0JW108M+	R	1000	6.3V	Electrolytic	AC
C1406	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1409	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1410	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1411	VCKYCY1CF104Z*	R	0.1	16V	Ceramic	AA
C1412	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1413	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1414	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1415	VCEA0A1CW107M+	R	100	16V	Electrolytic	AC
C1416	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1417	VCKYCY1HB222K*	R	2200p	50V	Ceramic	AA
C1418	VCEA0A1HW105M+	R	1	50V	Electrolytic	AB
C1419	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1420	VCEA0A0JW108M+	R	1000	6.3V	Electrolytic	AC
C1421	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1423	VCKYCY1HB102K*	R	1000p	50V	Ceramic	AA
C1425	VCEA0A1CW106M+	R	10	16V	Electrolytic	AB
C1426	VCKYCY1HB102K*	R	1000p	50V	Ceramic	AA
C1428	VCEA0A1HW105M+	R	1	50V	Electrolytic	AB
C1429	VCEA0A1HW105M+	R	1	50V	Electrolytic	AB
C1430	VCEA0A1CW476M+	R	47	16V	Electrolytic	AB
C1431	VCKYCY1CF104Z*	R	0.1	16V	Ceramic	AA
C1432	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1433	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1434	VCKYCY1CF104Z*	R	0.1	16V	Ceramic	AA
C1435	VCKYCY1CF104Z*	R	0.1	16V	Ceramic	AA
C1436	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1437	VCKYCY1CF104Z*	R	0.1	16V	Ceramic	AA
C1438	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1439	VCKYCY1CF104Z*	R	0.1	16V	Ceramic	AA
C1440	VCEA0A0JW108M+	R	1000	6.3V	Electrolytic	AC
C1460	VCEA0A1CW106M+	R	10	16V	Electrolytic	AB
C1462	VCEA0A1CW107M+	R	100	16V	Electrolytic	AC
C1464	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1465	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1466	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1467	VCEA0A1CW107M+	R	100	16V	Electrolytic	AC
C1472	VCKYCY1CF104Z*	R	0.1	16V	Ceramic	AA
C1473	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1476	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1477	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1900	VCKYCY1HB681K*	R	680p	50V	Ceramic	AA
C1901	VCKYCY1HB681K*	R	680p	50V	Ceramic	AA
C1902	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1903	VCKYCY1HB681K*	R	680p	50V	Ceramic	AA
C1904	VCEA0A1HW105M+	R	1	50V	Electrolytic	AB
C1905	VCEA0A1HW105M+	R	1	50V	Electrolytic	AB
C1906	VCKYCY1HB681K*	R	680p	50V	Ceramic	AA
C1907	VCEA0A1HW105M+	R	1	50V	Electrolytic	AB
C1908	VCKYCY1HB103K*	R	0.01	50V	Ceramic	AA
C1909	VCEA0A1HW105M+	R	1	50V	Electrolytic	AB
C1910	VCEA0A1HW105M+	R	1	50V	Electrolytic	AB
C1911	VCEA0A1HW105M+	R	1	50V	Electrolytic	AB
C1912	VCEA0A1HW105M+	R	1	50V	Electrolytic	AB
C1913	VCEA0A1HW105M+	R	1	50V	Electrolytic	AB
C1914	VCKYCY1HB681K*	R	680p	50V	Ceramic	AA
C1915	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1916	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1917	VCCCCY1HH220J*	R	22p	50V	Ceramic	AA
C1919	VCKYCY1HF103Z*	R	0.01	50V	Ceramic	AA
C1921	VCKYCY1HB681K*	R	680p	50V	Ceramic	AA
C1922	VCKYCY1CF104Z*	R	0.1	16V	Ceramic	AA
C1923	VCEA0A1CW107M+	R	100	16V	Electrolytic	AC
C1924	VCKYCY1CF104Z*	R	0.1	16V	Ceramic	AA
C1925	VCEA0A1CW106M+	R	10	16V	Electrolytic	AB
C1926	VCEA0A1CW226M+	R	22	16V	Electrolytic	AB
C1927	VCKYCY1HB681K*	R	680p	50V	Ceramic	AA
C1928	VCEA0A1HW105M+	R	1	50V	Electrolytic	AB
C1929	VCKYCY1HB681K*	R	680p	50V	Ceramic	AA
C1930	VCCCCY1HH121J*	R	120p	50V	Ceramic	AA
C1931	VCCCCY1HH121J*	R	120p	50V	Ceramic	AA
C1937	VCEA0A1HW105M+	R	1	50V	Electrolytic	AB
C1938	VCEA0A1HW105M+	R	1	50V	Electrolytic	AB
C1939	VCEA0A1HW105M+	R	1	50V	Electrolytic	AB
C1940	VCEA0A1HW105M+	R	1	50V	Electrolytic	AB
C1949	VCE9GA1CW106M+	R	10	16V	Electrolytic	AB
C1950	VCKYCY1CF104Z*	R	0.1	16V	Ceramic	AA
C1951	VCKYCY1HB681K*	R	680p	50V	Ceramic	AA
C1952	VCKYCY1CF104Z*	R	0.1	16V	Ceramic	AA
C1958	VCEA0A1CW106M+	R	10	16V	Electrolytic	AB
C1959	VCEA0A1CW106M+	R	10	16V	Electrolytic	AB
C1960	VCEA0A1CW106M+	R	10	16V	Electrolytic	AB
C1961	VCKYCY1HB561K*	R	560p	50V	Ceramic	AA

RESISTORS

RJ2	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
RJ3	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ6	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ7	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ9	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ10	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ13	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ16	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ17	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ18	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ19	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ20	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ21	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ22	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ23	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ24	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
RJ25	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
R190	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
R193	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
R1401	VRD-RA2EE1R0J*	R	1 1/4W Carbon	AA
R1404	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1405	VCKYCY1HB331K*	R	330PF D50 MIC	AA
R1406	VRS-CY1JF473J*	R	47k 1/16W Metal Oxide	AA
R1407	VRS-CY1JF821J*	R	820 1/16W Metal Oxide	AA
R1408	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
R1412	VRS-CY1JF100J*	R	10 1/16W Metal Oxide	AA
R1413	VRS-CY1JF100J*	R	10 1/16W Metal Oxide	AA
R1414	VRS-CY1JF121J*	R	120 1/16W Metal Oxide	AA
R1415	VRS-CY1JF821J*	R	820 1/16W Metal Oxide	AA
R1416	VRS-CY1JF821J*	R	820 1/16W Metal Oxide	AA
R1417	VRS-CY1JF561J*	R	560 1/16W Metal Oxide	AA
R1418	VRS-CY1JF221J*	R	220 1/16W Metal Oxide	AA
R1419	VRS-CY1JF152J*	R	1.5k 1/16W Metal Oxide	AA
R1420	VRS-CY1JF152J*	R	1.5k 1/16W Metal Oxide	AA
R1421	VRS-CY1JF221J*	R	220 1/16W Metal Oxide	AA
R1422	VRS-CY1JF202JY	R	2k 1/16W Metal Oxide	AA
R1423	VRS-CY1JF223J*	R	22k 1/16W Metal Oxide	AA
R1424	VRS-CY1JF223J*	R	22k 1/16W Metal Oxide	AA
R1425	VRS-CY1JF821J*	R	820 1/16W Metal Oxide	AA
R1426	VRS-CY1JF821J*	R	820 1/16W Metal Oxide	AA
R1427	VRS-CY1JF680J*	R	68 1/16W Metal Oxide	AA
R1428	VRS-CY1JF121J*	R	120 1/16W Metal Oxide	AA
R1429	VRS-CY1JF271J*	R	270 1/16W Metal Oxide	AA
R1430	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1431	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1432	VRS-CY1JF221J*	R	220 1/16W Metal Oxide	AA
R1433	VRS-CY1JF152J*	R	1.5k 1/16W Metal Oxide	AA
R1434	VRS-CY1JF152J*	R	1.5k 1/16W Metal Oxide	AA
R1435	VRS-CY1JF221J*	R	220 1/16W Metal Oxide	AA
R1436	VRS-CY1JF221J*	R	220 1/16W Metal Oxide	AA
R1437	VRS-CY1JF221J*	R	220 1/16W Metal Oxide	AA
R1438	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1442	VRS-CY1JF000J*	R	0 1/16W Metal Oxide	AA
R1446	VRS-CY1JF103J*	R	10k 1/16W Metal Oxide	AA
R1447	VRS-CY1JF202JY	R	2k 1/16W Metal Oxide	AA
R1448	VRS-CY1JF202JY	R	2k 1/16W Metal Oxide	AA
R1449	VRS-CY1JF122J*	R	1.2k 1/16W Metal Oxide	AA
R1450	VRS-CY1JF122J*	R	1.2k 1/16W Metal Oxide	AA
R1451	VRS-CY1JF392J*	R	3.9k 1/16W Metal Oxide	AA
R1452	VRS-CY1JF392J*	R	3.9k 1/16W Metal Oxide	AA
R1455	VRS-CY1JF100J*	R	10 1/16W Metal Oxide	AA
R1463	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1464	VRS-CY1JF680J*	R	68 1/16W Metal Oxide	AA
R1465	VRS-CY1JF221J*	R	220 1/16W Metal Oxide	AA
R1900	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1917	VRS-CY1JF100J*	R	10 1/16W Metal Oxide	AA
R1919	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1920	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1930	VRS-CY1JF223J*	R	22k 1/16W Metal Oxide	AA
R1931	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1932	VRS-CY1JF223J*	R	22k 1/16W Metal Oxide	AA
R1935	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1936	VRS-CY1JF223J*	R	22k 1/16W Metal Oxide	AA
R1937	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1938	VRS-CY1JF223J*	R	22k 1/16W Metal Oxide	AA
R1941	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1942	VRS-CY1JF223J*	R	22k 1/16W Metal Oxide	AA
R1943	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1944	VRS-CY1JF223J*	R	22k 1/16W Metal Oxide	AA
R1945	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1946	VRS-CY1JF103J*	R	10k 1/16W Metal Oxide	AA
R1947	VRS-CY1JF151J*	R	150 1/16W Metal Oxide	AA
R1948	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1949	VRS-CY1JF151J*	R	150 1/16W Metal Oxide	AA
R1950	VRS-CY1JF151J*	R	150 1/16W Metal Oxide	AA
R1951	VRS-CY1JF151J*	R	150 1/16W Metal Oxide	AA
R1952	VRS-CY1JF151J*	R	150 1/16W Metal Oxide	AA
R1954	VRS-CY1JF221J*	R	220 1/16W Metal Oxide	AA
R1955	VRS-CY1JF221J*	R	220 1/16W Metal Oxide	AA
R1956	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1957	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1958	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1959	VRS-CY1JF102J*	R	1k 1/16W Metal Oxide	AA
R1960	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1962	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1964	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1967	VRS-CY1JF221J*	R	220 1/16W Metal Oxide	AA
R1968	VRS-CY1JF221J*	R	220 1/16W Metal Oxide	AA
R1969	VRS-CY1JF221J*	R	220 1/16W Metal Oxide	AA
R1970	VRS-CY1JF221J*	R	220 1/16W Metal Oxide	AA
R1971	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1972	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R1973	VRS-CY1JF151J*	R	150 1/16W Metal Oxide	AA
R1974	VRS-CY1JF103J*	R	10k 1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

	PSLDM0102GJFW	R	Shield	AD
P1904	QPLGN0861CEZZ	R	Plug, 8Pin(EJ)	AC
SC1901	QSOCN1598REZZ	R	Socket, 15Pin(VA)	AD
SC1902	QSOCN1598REZZ	R	Socket, 15Pin(VB)	AD
SC1903	QSOCN1098REZZ	R	Socket, 10Pin(VC)	AC

DUNTKB027WEA9(29WF200)
DUNTKB027WEB1(29WF500)
PWB-D S-CONTROL UNIT

INTEGRATED CIRCUITS

IC3501	VHiBD3867AF-1Y	R	I.C.	AQ
IC3601	VHiMZ01++++-1Y	R	I.C.	AT
IC3701	VHiMSP3417G-1Q	R	MSP3417G-QG-B8 (29WF500)	AY
IC3801	VHiM62334FP-1*	R	M62334FP	AH

TRANSISTORS

Q3701	VS2PD601AR/-1*	R	2PD601AR(29WF500)	AB
Q3702	VS2SC2735//1E*	R	2SC2735(29WF500)	AC

DIODES

D3601	VHD1SS133++-1*	R	1SS133	
D3602	VHD1SS133++-1*	R	1SS133	
D3603	VHD1SS133++-1*	R	1SS133	
D3604	VHD1SS133++-1*	R	1SS133	
D3605	VHD1SS133++-1*	R	1SS133	
D3702	RH-EX0627GEZZ*	R	Zener Diode, 8.2V (29WF500)	AA

PACKAGED CIRCUIT

X3701	RCRSB0249GEZZ+	R	Crystal(29WF500)	AF

COILS

L3501	VP-XF100K0000*	R	Peaking, 10µH	AB
L3601	VP-XF100K0000*	R	Peaking, 10µH	AB
L3701	VP-XF100K0000*	R	Peaking, 10µH(29WF500)	AB
L3702	VP-XF100K0000*	R	Peaking, 10µH(29WF500)	AB
L3703	VP-XF220K0000*	R	Peaking, 22µH(29WF500)	AB

CAPACITORS

C3501	VCEA0A1CW106M+	R	10	16V	Electrolytic	AB
C3502	VCEA0A1CW106M+	R	10	16V	Electrolytic	AB
C3503	VCQYTA1HM683J+	R	0.068	50V	Mylar	AB

Ref. No.	Part No.	★	Description	Code
C3504	RC-QZA102TAYJ+	R	1000p 50V Polyester Film	AB
C3505	VCE9GA1CW106M+	R	10 16V Electrolytic	AB
C3506	RC-QZA104TAYJ+	R	0.1 50V Polyester Film	AB
C3507	VCEA0A1CW476M+	R	47 16V Electrolytic	AB
C3508	VCEA0A1HW475M+	R	4.7 50V Electrolytic	AB
C3509	VCEA0A1HW475M+	R	4.7 50V Electrolytic	AB
C3510	VCEA0A1HW475M+	R	4.7 50V Electrolytic	AB
C3511	VCEA0A1HW475M+	R	4.7 50V Electrolytic	AB
C3512	VCEA0A1HW475M+	R	4.7 50V Electrolytic	AB
C3513	VCEA0A1CW106M+	R	10 16V Electrolytic	AB
C3514	VCQYTA1HM683J+	R	0.068 50V Mylar	AB
C3515	RC-QZA102TAYJ+	R	1000p 50V Polyester Film	AB
C3516	VCE9GA1CW106M+	R	10 16V Electrolytic	AB
C3517	VCEA0A1CW476M+	R	47 16V Electrolytic	AB
C3600	VCKYCY1HB102K*	R	1000p 50V Ceramic	AA
C3602	VCEA0A1CW477M+	R	470 16V Electrolytic	AC
C3603	VCEA0A1CW106M+	R	10 16V Electrolytic	AB
C3604	VCFYFA1HA334J+	R	0.33 50V Polyester Film	AB
C3605	VCEA0A1CW106M+	R	10 16V Electrolytic	AB
C3606	VCE9GA1CW106M+	R	10 16V Electrolytic	AB
C3607	VCEA0A1HW335M+	R	3.3 50V Electrolytic	AB
C3608	VCEA0A1HW105M+	R	1 50V Electrolytic	AB
C3609	VCEA0A1CW336M+	R	33 16V Electrolytic	AB
C3610	VCE9GA1CW106M+	R	10 16V Electrolytic	AB
C3611	RC-QZA102TAYJ+	R	1000p 50V Polyester Film	AB
C3612	RC-QZA332TAYJ+	R	3300p 50V Polyester Film (29WF200)	AB
C3612	VCQYTA1HM332J+	R	3300p 50V Mylar (29WF500)	AA
C3613	VCQYTA1HM333J+	R	0.033 50V Mylar	AB
C3614	VCQYTA1HM104J+	R	0.1 50V Mylar	AB
C3615	VCQYTA1HM333J+	R	0.033 50V Mylar	AB
C3616	VCQYTA1HM104J+	R	0.1 50V Mylar	AB
C3617	RC-QZA102TAYJ+	R	1000p Polyester Film	AB
C3618	RC-QZA332TAYJ+	R	3300p 50V Polyester Film (29WF200)	AB
C3618	VCQYTA1HM332J+	R	3300p 50V Mylar (29WF500)	AA
C3619	VCEA0A1CW107M+	R	100 16V Electrolytic	AC
C3620	VCKYCY1HB102K*	R	1000p 50V Ceramic	AA
C3701	VCEA0A1CW106M+	R	10 16V Electrolytic (29WF500)	AB
C3702	VCKYCY1HF103Z*	R	0.01 50V Ceramic (29WF500)	AA
C3703	VCEA0A1CW226M+	R	22 16V Electrolytic (29WF500)	AB
C3704	VCEA0A1CW106M+	R	10 16V Electrolytic (29WF500)	AB
C3705	VCKYCY1HF103Z*	R	0.01 50V Ceramic (29WF500)	AA
C3706	VCEA0A1CW226M+	R	22 16V Electrolytic (29WF500)	AB
C3707	VCKYCY1HF103Z*	R	0.01 50V Ceramic (29WF500)	AA
C3708	VCEA0A1CW106M+	R	10 16V Electrolytic (29WF500)	AB
C3709	VCCCCY1HH1R0C*	R	1p 50V Ceramic (29WF500)	AA
C3710	VCCCCY1HH1R0C*	R	1p 50V Ceramic (29WF500)	AA
C3711	VCCCCY1HH470J*	R	47p 50V Ceramic (29WF500)	AA
C3712	VCKYCY1HF103Z*	R	0.01 50V Ceramic (29WF500)	AA
C3713	VCEA0A1CW106M+	R	10 16V Electrolytic (29WF500)	AB
C3714	VCCCCY1HH560J*	R	56p 50V Ceramic (29WF500)	AB
C3715	VCKYCY1CF104Z*	R	0.1 16V Ceramic (29WF500)	AA
C3716	VCCCCY1HH151J*	R	150p 50V Ceramic (29WF500)	AA
C3717	VCEA0A1CW106M+	R	10 16V Electrolytic (29WF500)	AB
C3718	VCKYCY1HF103Z*	R	0.01 50V Ceramic (29WF500)	AA
C3719	VCKYCY1CF104Z*	R	0.1 16V Ceramic (29WF500)	AA
C3720	VCQYTA1HM103J+	R	0.01 50V Mylar (29WF500)	AB
C3721	VCCCCY1HH330J*	R	33p 50V Ceramic (29WF500)	AA
C3722	VCCCCY1HH330J*	R	33p 50V Ceramic (29WF500)	AA
C3723	VCKYCY1HB222K*	R	2200p 50V Ceramic	AA
C3724	VCKYCY1HB222K*	R	2200p 50V Ceramic	AA
C3801	VCKYCY1HF103Z*	R	0.01 50V Ceramic	AA
C3802	VCKYCY1HF103Z*	R	0.01 50V Ceramic	AA
C3803	VCKYCY1HB103K*	R	0.01 50V Ceramic (29WF500)	AA
C3803	VCKYCY1HF103Z*	R	0.01 50V Ceramic (29WF200)	AA
C3804	VCKYCY1HB103K*	R	0.01 50V Ceramic (29WF500)	AA
C3804	VCKYCY1HF103Z*	R	0.01 50V Ceramic (29WF200)	AA
C3805	VCKYCY1CF104Z*	R	0.1 16V Ceramic	AA

RESISTORS

RJ2	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide (29WF500)	AA
RJ3	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA
RJ4	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide (29WF500)	AA
RJ6	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA
RJ7	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA
RJ8	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide (29WF500)	AA
RJ9	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA
RJ11	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA
RJ13	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA
RJ14	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA
RJ15	VRS-CY1JF000J*	R	0	1/16W	Metal Oxide	AA
R3500	VRS-CY1JF820J*	R	82	1/16W	Metal Oxide	AA
R3501	VRS-CY1JF104J*	R	100k	1/16W	Metal Oxide	AA
R3502	VRS-CY1JF224J*	R	220k	1/16W	Metal Oxide	AD
R3503	VRS-CY1JF101J*	R	100	1/16W	Metal Oxide	AA
R3504	VRS-CY1JF101J*	R	100	1/16W	Metal Oxide	AA
R3505	VRS-CY1JF820J*	R	82	1/16W	Metal Oxide	AA
R3601	VRS-CY1JF474J*	R	470k	1/16W	Metal Oxide	AA
R3602	VRS-CY1JF474J*	R	470k	1/16W	Metal Oxide	AA
R3603	VRD-RA2BE474J*	R	470k	1/8W	Carbon	AA
R3604	VRS-CY1JF123J*	R	12k	1/16W	Metal Oxide	AA
R3605	VRS-CY1JF392J*	R	3.9k	1/16W	Metal Oxide	AA
R3606	VRS-CY1JF104J*	R	100k	1/16W	Metal Oxide	AA
R3607	VRS-CY1JF333J*	R	33k	1/16W	Metal Oxide	AA
R3608	VRS-CY1JF104J*	R	100k	1/16W	Metal Oxide	AA
R3609	VRS-CY1JF333J*	R	33k	1/16W	Metal Oxide	AA
R3610	VRS-CY1JF123J*	R	12k	1/16W	Metal Oxide	AA
R3611	VRS-CY1JF392J*	R	3.9k	1/16W	Metal Oxide	AA
R3612	VRS-CY1JF103J*	R	10k	1/16W	Metal Oxide	AA
R3613	VRS-CY1JF223J*	R	22k	1/16W	Metal Oxide	AA
R3614	VRS-CY1JF103J*	R	10k	1/16W	Metal Oxide	AA
R3615	VRS-CY1JF103J*	R	10k	1/16W	Metal Oxide	AA
R3701	VRD-RA2BE473J*	R	47k	1/8W	Carbon (29WF500)	AA
R3702	VRD-RA2BE101J*	R	100	1/8W	Carbon	AA
R3703	VRD-RA2BE101J*	R	100	1/8W	Carbon	AA
R3704	VRS-CY1JF102J*	R	1k	1/16W	Metal Oxide (29WF500)	AA
R3705	VRS-CY1JF221J*	R	220	1/16W	Metal Oxide (29WF500)	AA
R3706	VRS-CY1JF152J*	R	1.5k	1/16W	Metal Oxide (29WF500)	AA
R3707	VRS-CY1JF102J*	R	1k	1/16W	Metal Oxide (29WF500)	AA
R3708	VRS-CY1JF221J*	R	220	1/16W	Metal Oxide (29WF500)	AA
R3709	VRS-CY1JF393J*	R	39k	1/16W	Metal Oxide (29WF500)	AA
R3710	VRS-CY1JF183J*	R	18k	1/16W	Metal Oxide (29WF500)	AA

Ref. No.	Part No.	★	Description	Code
R3711	VRS-CY1JF102J*	R	1k 1/16W Metal Oxide (29WF500)	AA
R3712	VRD-RA2BE101J*	R	100 1/8W Carbon (29WF500)	AA
R3713	VRD-RA2BE101J*	R	100 1/8W Carbon (29WF500)	AA
R3714	VRD-RA2BE680J*	R	68 1/8W Carbon (29WF500)	AA
R3801	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R3802	VRS-CY1JF101J*	R	100 1/16W Metal Oxide	AA
R3803	VRS-CY1JF153J*	R	15k 1/16W Metal Oxide	AA
R3804	VRS-CY1JF103J*	R	10k 1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

	PSLDM0345PEFW	R	Shield	AC
P3001	QPLGN0242FJ00	R	Plug, 10Pin(EA)	AE
P3002	QPLGN0238FJ00	R	Plug, 6Pin(EB)	AD

DUNTKB028WEA8
PWB-F FRONT UNIT

INTEGRATED CIRCUIT

IC4301	VHiBH3543F+-1*	R	BH3543F-E2	AE

TRANSISTORS

Q4001	VS2PA1015Y+-1+	R	2PA1015Y, SAVE	AC
Q4002	VS2PC1815Y+-1+	R	2PC1815Y, ON TIMER	AC
Q4301	VS2PC1815Y+-1+	R	2PC1815Y	AC
Q4302	VS2PC1815Y+-1+	R	2PC1815Y	AC

DIODES

D4001	RH-PX0274CEZZ	R	PhotoDiode	AC
D4002	RH-PX0274CEZZ	R	PhotoDiode	AC
D4003	RH-PX0414CEZZ	R	PhotoDiode	AE
D4301	VHD1SS133++-1*	R	1SS133	
⚠ VA4701	RH-VX0048CEZZ	R	Varistor	AE

COIL

⚠ L4701	RCiLF0363CEZZ	R	Coil	AG

CAPACITORS

C4001	VCEA0A1HW476M+	R	47	50V	Electrolytic	AB
C4003	VCEA0A1CW476M+	R	47	16V	Electrolytic	AB
C4301	VCEA0A1CW337M+	R	330	16V	Electrolytic	AC
C4302	VCEA0A0JW227M+	R	220	6.3V	Electrolytic	AB
C4303	VCEA0A1CW337M+	R	330	16V	Electrolytic	AC
C4304	VCEA0A1CW476M+	R	47	16V	Electrolytic	AB
C4305	VCKYPA1HF103Z+	R	0.01	50V	Ceramic	AA
C4306	VCEA0A0JW477M+	R	470	6.3V	Electrolytic	AC
C4307	VCKYPA1HF103Z+	R	0.01	50V	Ceramic	AA
C4308	VCQYTA1HM683J+	R	0.068	50V	Mylar	AB
C4309	VCQYTA1HM683J+	R	0.068	50V	Mylar	AB
C4312	VCEA0A1CW106M+	R	10	16V	Electrolytic	AB
C4313	VCEA0A1CW106M+	R	10	16V	Electrolytic	AB
⚠ C4701	RC-FZ012SGEZZ	R	0.22 AC250V Metallized Polyester Film			AE
C4901	VCKYPA1HB102K+	R	1000p	50V	Ceramic	AA
C4902	VCKYPA1HB561K+	R	560p	50V	Ceramic	AA
C4903	VCQYTA1HM332J+	R	3300p	50V	Mylar	AA

RESISTORS

R4001	VRD-RA2BE470J*	R	47	1/8W	Carbon	AA
R4006	VRD-RA2BE822J*	R	8.2k	1/8W	Carbon	AA
R4007	VRD-RA2BE822J*	R	8.2k	1/8W	Carbon	AA
R4008	VRD-RA2BE183J*	R	18k	1/8W	Carbon	AA
R4009	VRD-RA2BE183J*	R	18k	1/8W	Carbon	AA
R4021	VRD-RA2BE471J*	R	470	1/8W	Carbon	AA
R4022	VRD-RA2BE223J*	R	22k	1/8W	Carbon	AA
R4023	VRD-RA2BE103J*	R	10k	1/8W	Carbon	AA
R4024	VRD-RA2BE473J*	R	47k	1/8W	Carbon	AA
R4025	VRD-RA2BE472J*	R	4.7k	1/8W	Carbon	AA
R4026	VRD-RA2BE681J*	R	680	1/8W	Carbon	AA
R4301	VRD-RA2BE102J*	R	1k	1/8W	Carbon	AA
R4302	VRD-RA2BE102J*	R	1k	1/8W	Carbon	AA
R4303	VRD-RA2BE103J*	R	10k	1/8W	Carbon	AA
R4304	VRD-RA2BE223J*	R	22k	1/8W	Carbon	AA
R4307	VRD-RA2BE471J*	R	470	1/8W	Carbon	AA
R4308	VRD-RA2BE471J*	R	470	1/8W	Carbon	AA
R4309	VRD-RA2BE103J*	R	10k	1/8W	Carbon	AA
R4310	VRD-RA2BE102J*	R	1k	1/8W	Carbon	AA
R4701	VRC-UA2HG275KY	R	2.7M	1/2W	Solid	AC
R4702	VRW-KP4AC1R2K	R	1.2	10W	Cement	AE
R4901	VRD-RA2BE102J*	R	1k	1/8W	Carbon	AA
R4902	VRD-RA2BE102J*	R	1k	1/8W	Carbon	AA
R4903	VRD-RA2BE151J*	R	150	1/8W	Carbon	AA
R4904	VRD-RA2BE151J*	R	150	1/8W	Carbon	AA
R4905	VRD-RA2BE750J*	R	75	1/8W	Carbon	AA

SWITCHES

S4001	QSW-K0003AJZZ+	R	Switch, MENU	AB
S4003	QSW-K0003AJZZ+	R	Switch, VOL. DOWN	AB
S4004	QSW-K0003AJZZ+	R	Switch, VOL. UP	AB
S4005	QSW-K0003AJZZ+	R	Switch, CH DOWN	AB
S4006	QSW-K0003AJZZ+	R	Switch, CH UP	AB
⚠ S4701	QSW-P0591CEZZ	R	Switch, POWER	AQ

MISCELLANEOUS PARTS

⚠ F4701	QFS-C5022CEZZ	R	Fuse, T5A/250V	AD
FH4701	QFSHD1013CEZZ+	R	Fuse Holder	AC
FH4702	QFSHD1014CEZZ+	R	Fuse Holder	AC
J4301	QJAKJ0101SEZZ	R	Jack, Headphone	AE
J4901	QJAKG0074CEZZ	R	Jack	AF
J4902	QSOCD0430CEZZ	R	Socket, S-Video	AE
P4001	QPLGN0861CEZZ	R	Plug, 8Pin(EJ)	AC
P4002	QPLGN0661CEZZ	R	Plug, 6Pin(HP)	AD
P4003	QPLGN0961CEZZ	R	Plug, 9Pin(KA)	AD
⚠ P4701	QPLGN0269GEZZ	R	Plug, 2Pin(A1-2)	AB
P4702	QPLGN0269GEZZ	R	Plug, 2Pin(AC)	AB
RMC4001	RRMCU0222CEZZ	R	Remote Receiver	AL
	LHLDP1056PE00	R	Holder	AC

Ref. No.	Part No.	★	Description	Code

MISCELLANEOUS PARTS

	QACCJ9001CESB	R	AC Cord	
	RSP-ZA001WJZZ	R	Speaker Box (SP1,SP2)	BB
	QCNW-A027WJZZ	R	Connecting Cord	AF
	QCNW-A028WJZZ	R	Connecting Cord	AF
	QCNW-A029WJZZ	R	Connecting Cord	AG
	QCNW-A030WJZZ	R	Connecting Cord	AF
	QCNW-A031WJZZ	R	Connecting Cord	AG
	QCNW-A032WJZZ	R	Connecting Cord	AL
	QCNW-A106WJZZ	R	Connecting Cord	AF
	QPLGA0201SE0F	R	Plug	AG
	QSOCN0243GEZZ	R	Socket	

SUPPLIED ACCESSORIES

ACCESSORIES

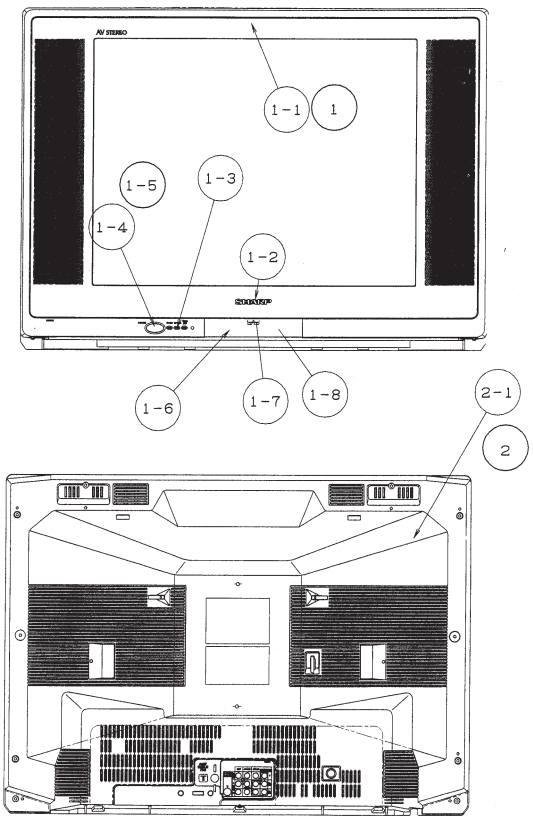
	RRMCG1570PESA	R	Infrared R-C	AP
	TiNS-A444WJZZ	R	Instruction Book(29WF200)	
	TiNS-A445WJZZ	R	Instruction Book(29WF500)	

PACKING PARTS
(NOT REPLACEMENT ITEM)

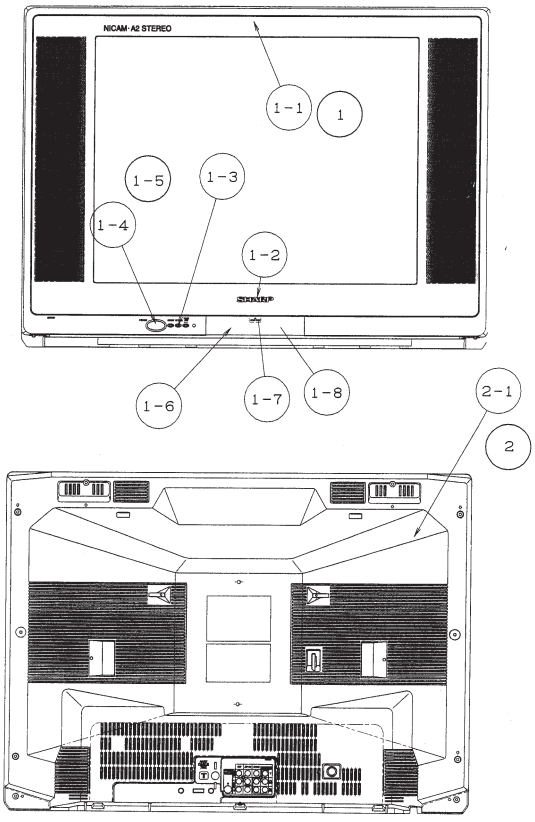
	SPAKCA401WJZZ	–	Packing Case(29WF200)	—
	SPAKCA402WJZZ	–	Packing Case(29WF500)	—
	SPAKXA170WJZZ	–	Packing Add.	—
	SSAKA0037CEZZ	–	Polyethylene Bag	—
	SSAKH0018PEZZ	–	Polyethylene Bag	—

CABINET PARTS

1	CCABAA192WEC0	R	Front Cabinet Ass'y (29WF200)	
1	CCABAA193WEC0	R	Front Cabinet Ass'y (29WF500)	
1-1	*Not Availble*	–	Front Cabinet	—
1-2	HBDGB3141CESA	R	SHARP Badge	AG
1-3	GCOVA0142PESA	R	LED & R/C Cover	AD
1-4	JBTN-0395PESA	R	Power Button	AG
1-5	MSPRC0005PEFW	R	Power Button Spring	AB
1-6	GDORF0196PESA	R	Door	AN
1-7	PKAi-0007PE00	R	Door Latch	AE
1-8	HiNDPA264WJSA	R	Indication Plate	
2	CCABBA2459WEA0		Rear Cabinet Ass'y	
2-1	*Not Availble*	–	Rear Cabinet	—

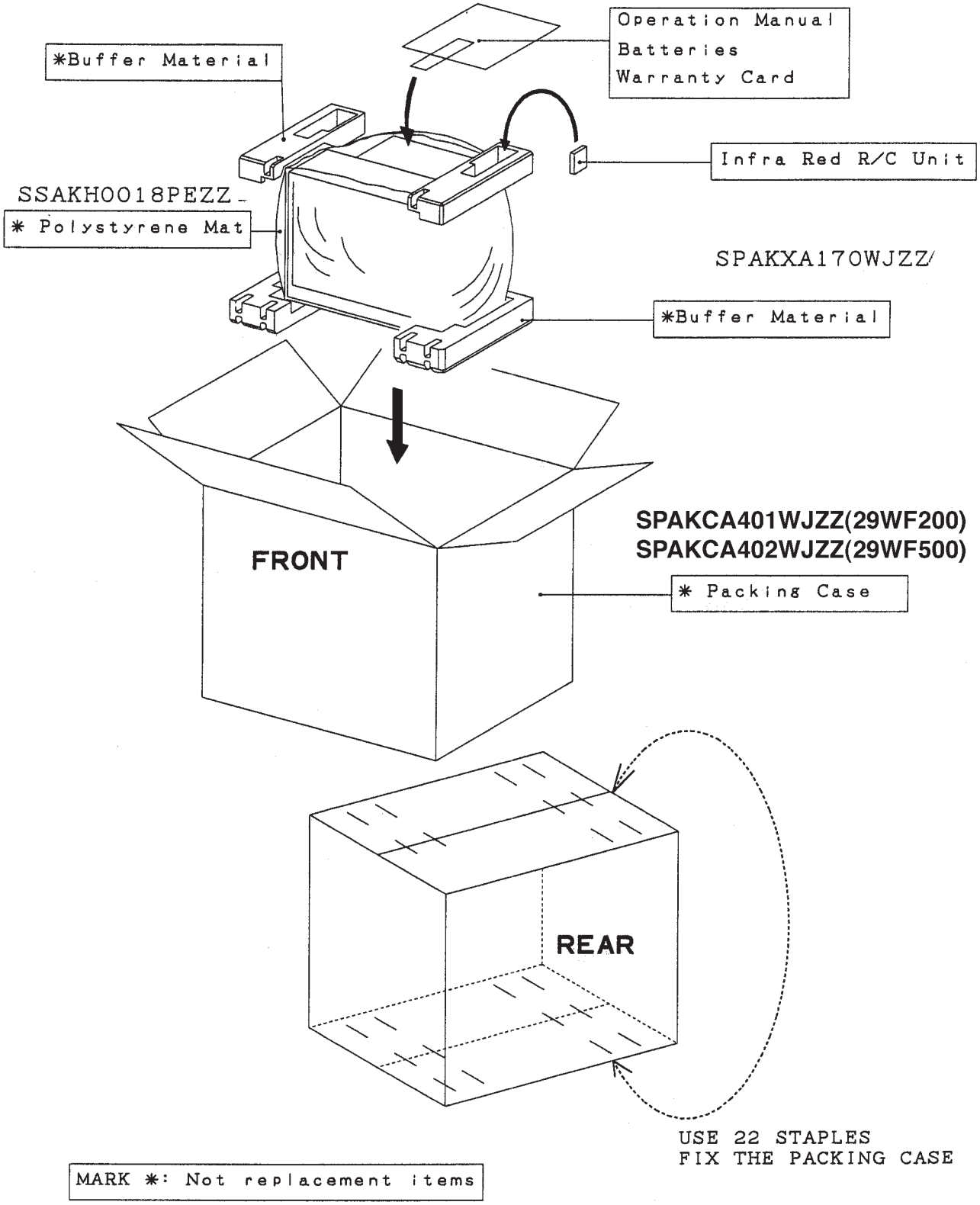


29WF200



29WF500

PACKING OF THE SET



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